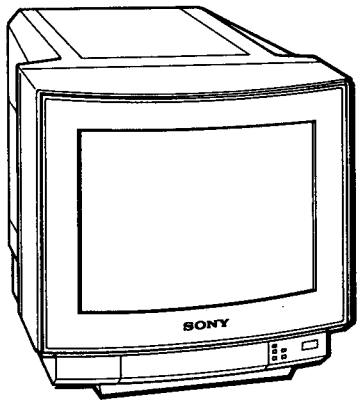
GVM-1311Q
RM-787

SERVICE MANUAL

US Model
Canadian Model
Chassis No. SCC-D43C-A



SPECIFICATIONS

Color systems PAL, SECAM, NTSC3.58 and NTSC4.43 systems

Picture tube
Trinitron tube
Anti-glaring dark screen
Approx. 35.56 cm (13 inches) picture measured diagonally, 90-degree deflection
AG Pitch 0.25 mm

Resolution
Video inputs: 600 TV lines
RGB inputs: 1024 dots × 768 lines

Color temperature
9300 K + 8MPCD

Frequency response
8 MHz (–6 dB, composite video)
30 MHz (–3 dB, RGB)

Linearity
Horizontal: less than ±5%
Vertical: less than ±5%

Line full range
Composite video input
Horizontal: 15.734 kHz ±500 Hz
Vertical: –8Hz
RGB input
Horizontal: 15 to 36 kHz
Vertical: 50 to 100 Hz

Overscan of the picture
Composite video input
less than +7%
RGB input
Horizontal: –7% to +5% variable
Vertical: –7% to +5% variable

Audio 0.5 W monaural

Inputs
VIDEO IN (LINE A): BNC connector (1)
composite video, 1Vp-p ± 3dB, sync negative, automatic termination at 75 ohms
Y/C IN (LINE B): 4-pin, mini-DIN (1)
Y(luminance signal): 1Vp-p, sync negative, 75-ohm termination switchable
C (chrominance signal): 0.286 Vp-p (NTSC); 0.3 Vp-p (PAL) (burst signal), 75-ohm termination switchable
RGB A: D-sub 9-pin connector (1, female)
Analog RGB: 0.7Vp-p, 75 ohm terminated
Digital RGB : TTL level
RGB B: D-sub 25-pin connector (1, male)
Analog RGB: 0.7Vp-p, 75 ohm terminated
Digital RGB: TTL level

— Continued on page 2 —

MICROFILM

TRINITRON® COLOR VIDEO MONITOR

SONY®

AUDIO IN (LINE A/LINE B/RGB A):
phono jack (3)
−5 dBs, high impedance
CONTROL S: minijack (1)
RGB A SELECT: minijack (1)

Outputs
VIDEO OUT (LINE A): BNC connector (1)
Y/C OUT (LINE B): 4-pin mini-DIN (1)
AUDIO OUT (LINE A/LINE B): phono jack (2)

Power requirements
120 V AC, 50/60 Hz

Power consumption
95 W Max.

Operating temperature range
0°C – 35°C (32°F – 95°F)

Humidity
90% or less

Dimensions
Approx. 379 × 365.1 × 411 mm (w/h/d)
(15 × 14 3/8 × 16 1/4 inches)

Weight
Approx. 17 kg (37 lb 8 oz)

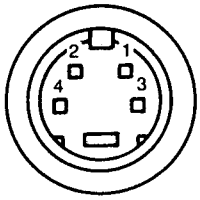
Accessories supplied
AC power cord (1)
Ferrite core (2)
Plastic binder (2)

Optional accessories
Display stand SU-552W
Remote control unit RM-787
Earphone ME-20

Design and specifications are subject to change without notice.

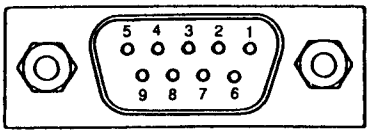
Pin assignment

Y/C (Y/C separate) IN connector (4-pin)



Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA sub-carrier-input	0.286 Vp-p (NTSC); 0.3 Vp-p (PAL), burst signal Delay time between Y and C: within 0±100 nsec., 75 ohms
3	GND for Y-input	Ground
4	GND for CHROMA-input	Ground

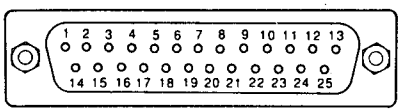
RGB multi connector (9-pin, female)



Pin No.	Signal				
	Analog	Digital 8-color	Digital 16-color	Digital 64-color	Digital monochrome
1	GND	GND	GND	GND	GND
2	(NC)	(NC)	(NC)	r	(NC)
3	R	R	R	R	(NC)
4	G	G	G	G	(NC)
5	B	B	B	B	(NC)
6	(NC)	(NC)	I	g	I
7	(NC)	(NC)	(NC)	b	G
8	H/HV	H/HV	H/HV	H/HV	H/HV
9	V	V	V	V	V
Sync level	TTL level (Positive or Negative)	TTL level (Positive or Negative)	TTL level (H:Positive V:Positive)	TTL level (H:Positive V:Negative)	TTL level (H:Positive V:Negative)

GND: Ground R: Red G: Green B: Blue
(NC): No connection
H: Horizontal sync V: Vertical sync
HV: Composite sync I: Intensity
r: Secondary red g: Secondary green b: Secondary blue

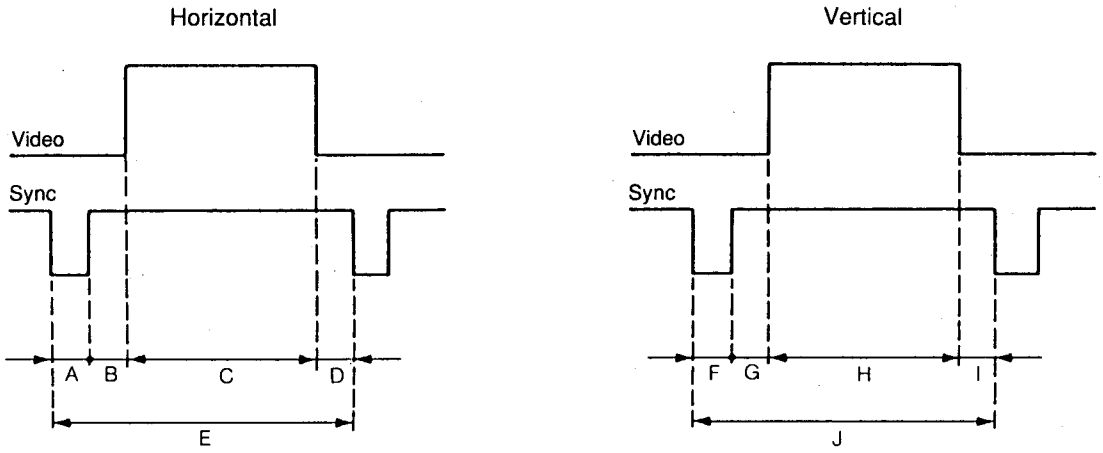
RGB multi connector (25-pin, male)



Pin No.	Signal	Signal level
1	IBM select	H (5 V): IBM mode L: 3 Bit TTL
2	Audio select	H (5 V or open): Audio inputs from #13 L (less than 0.4 V): Audio inputs from the LINE AUDIO IN jacks
3	Video input (composite video signal) H. sync or composite sync	When the high state is selected at #9: 1 Vp-p, 75 ohm terminated (Negative polarity sync),with the SUPERIMPOSE switch set to ON 1.2–4 Vp-p, 75 ohm terminated (Negative or Positive), with the SUPERIMPOSE switch set to OFF When the low state is selected at #9: TTL level
4	Blue input	Positive polarity When the high state is selected at #9: Analog signal (0.7 Vp-p, 75 ohm terminated, non sync 1 Vp-p, 75 ohm terminated, with sync on G signal) When the low state is selected at #9: Digital signal (TTL level)
5	Green input	
6	Red input	
7	NC	
8	NC	
9	Analog/digital mode select	H (open): Analog signal (0.7 Vp-p) L (ground): Digital signal (TTL level)
10	RGB B/NORMAL mode select (Function switch)	H (3 V to 12 V): Signal input from the 25 pin D-sub L (less than 2 V): Composite video inputs from LINE or Y/C input impedance more than 22 kilo ohms
11	V. sync	TTL level
12	Blanking input	When the high state is selected at #9: H (1 V to 3 V): RGB input from the 25 pin D-sub L (less than 0.4 V): Composite or Y/C video inputs, 75 ohm terminated (Rapid switch) When the low state is selected at #9: H (5 V or open): RGB input from the 25 pin D-sub L (ground): Composite video input from LINE VIDEO IN
13	Audio input	Input level –5 dBs (normal), input impedance more than 47 kilo ohms
14	EXT/INT video select	Functions with the SUPERIMPOSE switch set to ON. H (open): Sync signal input from #3 L (ground): Sync signal input from LINE or Y/ C
15	Video input return	
16	Blue input return	
17	Green input return	
18	Red input return	
19	Ground	
20	Video output (composite sync output)	Output level 1.0 Vp-p, within sync 0.3 Vp-p output impedance 75 ohm

Pin No.	Signal	Signal level
21	Video output return	
22	Audio common return	
23	Audio output	Output level –5 dBs (normal) output impedance less than 10 kilo ohm
24	Blanking input return	
25	IBM luminance signal	Positive polarity When the high state is selected at #1: TTL level When the low state is selected at #1: Low state (GND)

Timing Chart



		CGA compatible	EGA compatible	VGA compatible			1024×768 interlace
fH		15.68 kHz	21.86 kHz	31.47 kHz			35.52 kHz
A (µs)		4.45	4.92	3.81			3.92
B (µs)		8.03	1.65	1.91			1.25
C (µs)		44.83	39.32	25.42			22.81
D (µs)		6.47	–0.14	0.64			0.18
E (µs)		63.78	45.75	31.78			28.15
fV		60 Hz	60 Hz	60 Hz	70 Hz	70 Hz	87 Hz
F (ms)		0.19	0.60	0.064	0.064	0.064	0.113
G (ms)		2.11	0.10	1.02	1.08	1.87	0.563/0.577
H (ms)		12.74	16.01	15.26	12.71	11.13	10.81
I (ms)		1.64	0.04	0.349	0.416	1.206	0/0.014
J (ms)		16.68	16.75	16.69	14.27	14.27	11.50
Sync Polarity	H	+	+	–	–	+	+
	V	+	–	–	+	–	+

SAFETY CHECK-OUT (US Model Only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

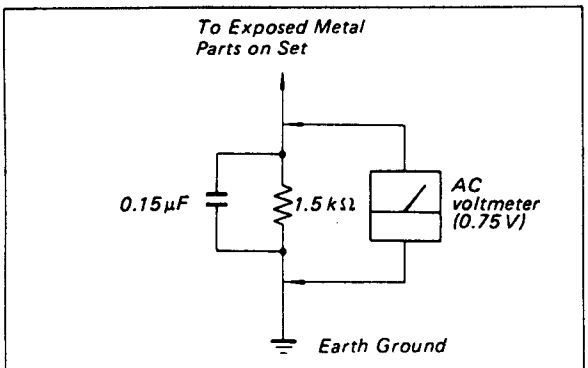


Fig. A. Using an AC voltmeter to check AC leakage.

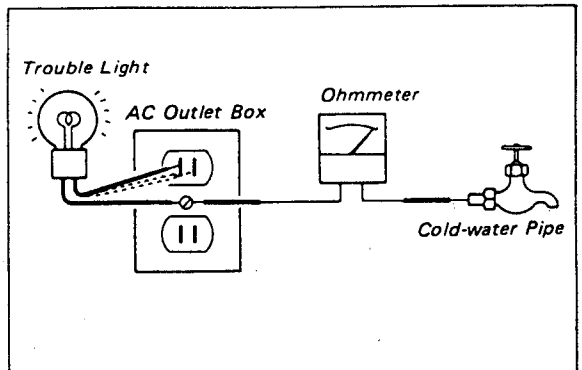


Fig. B. Checking for earth ground.

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

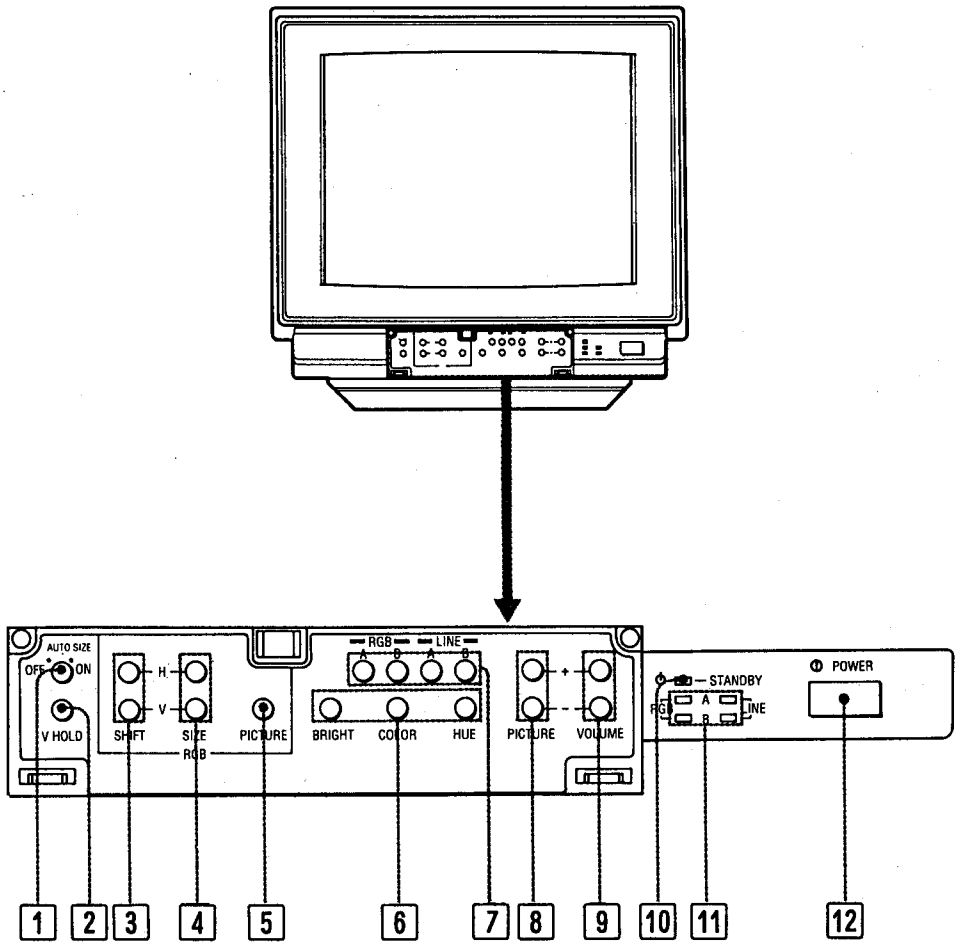
ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1
GENERAL

1-1. LOCATION AND FUNCTION OF PARTS AND CONTROLS

Front panel



[1] AUTO SIZE switch (only RGB A input)

ON: The right picture size and center are fixed in the VGA modes. The H/V SIZE and H/V SHIFT controls do not work. For other modes, the picture size and center are not guaranteed.

OFF: The H/V SIZE and H/V SHIFT controls can be freely set. The VGA modes have the same picture size and center.

Note

The above does not apply to RGB B input.

[2] V HOLD (vertical hold) control

If the video input picture rolls vertically, use this control to stabilize it.

Note

Control [2] does not function for RGB input pictures.

[3] RGB H/V SHIFT (horizontal/vertical shift) controls

Turn the H-SHIFT control to adjust the horizontal position of the RGB input picture, if it is off center. Turn it clockwise to shift the picture toward the right and counterclockwise to shift the picture toward the left.
Turn the V-SHIFT control to adjust the vertical position of the RGB input picture, if it is off center. Turn it clockwise to shift the picture upward and counterclockwise to shift the picture downward.

[4] RGB H/V SIZE (horizontal/vertical size) controls

Turn the H-SIZE control to adjust the horizontal size.
Turn the V-SIZE control to adjust the vertical size.

[5] RGB PICTURE control

Adjust this control if the picture level of RGB inputs differs significantly from that of video inputs.
Turn this control clockwise to make the contrast and color intensity of the RGB input picture stronger, or counterclockwise to make them weaker.

Notes

- Controls [3] to [5] function only for RGB input pictures. However, they do not function when the RGB B input is selected with the SUPERIMPOSE switch on the rear panel set to ON.
- When turning the controls [1] to [4], use the supplied screwdriver (attached to the panel cover).

[6] Picture adjustment controls

BRIGHT (brightness) control
Normally keep this control at the center detent position. Turn it clockwise to make the picture brighter or counterclockwise to make it darker.
COLOR control
Turn this control clockwise to make the picture more vivid or counterclockwise to make it paler.
HUE control
Functions for NTSC signal only.
Use this control to obtain the most natural skin tones. Turn it clockwise to add green to the skin tones or counterclockwise to add purple/red hues.

Note

The COLOR and HUE controls work for VIDEO signals only.

[7] Input select buttons

Press to select the input source to be monitored.

RGB A: for input signals fed through the RGB A connector and the RGB A AUDIO jack
RGB B: for input signals fed through the RGB B connector
LINE A: for input signals fed through the LINE A connectors
LINE B: for input signals fed through the LINE B connectors

[8] PICTURE +/– buttons

Press the + button to make the contrast and color intensity stronger or press the – button to make them weaker.

[9] VOLUME +/– buttons

Press the + button for more volume or press the – button for less volume.

[10] STANDBY indicator

Lights when the power is turned off by remote control through CONTROL S signal.
While the unit is operating, this indicator functions as the response indicator.
It blinks when the VOLUME or PICTURE buttons are pressed.
It lights steadily at the highest or lowest level of volume or picture level.

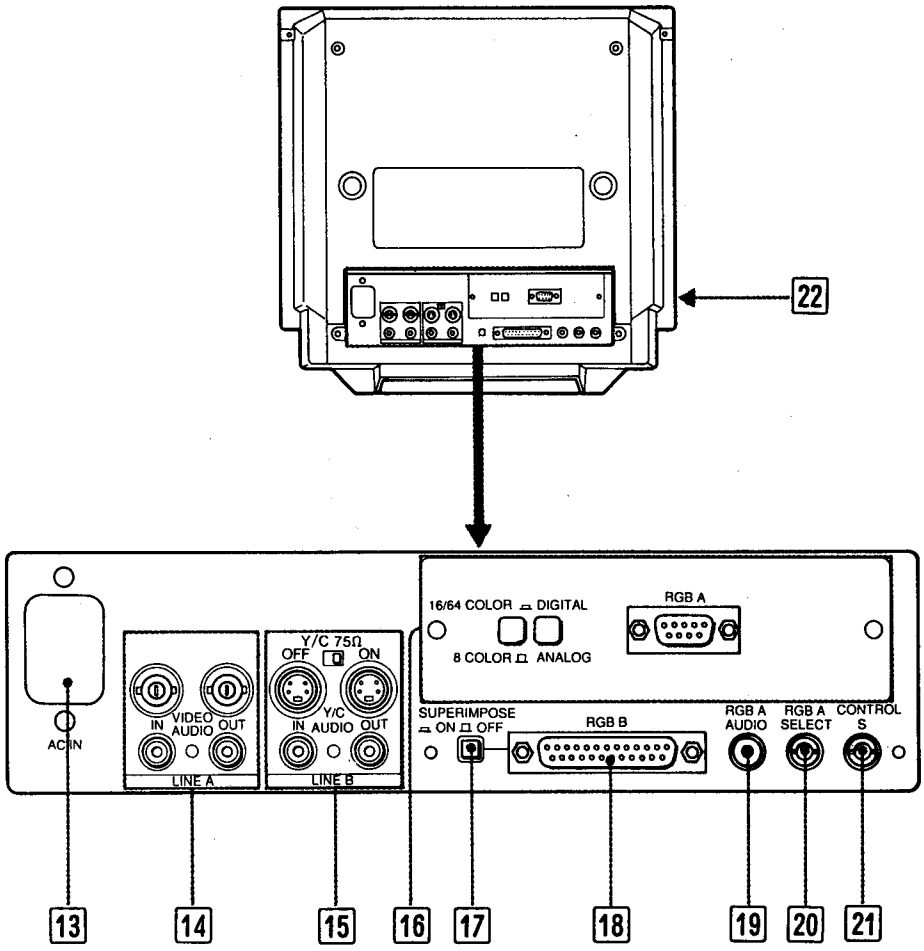
[11] Input select indicators (RGB A/RGB B/LINE A/LINE B)

When the input source is selected, the corresponding indicator lights.

[12] POWER switch

Press to turn on the monitor (⏏). Press again to turn it off (⏏).

Rear



13 AC IN connector
Connect the supplied power cord.

14 LINE A
To monitor the input signal fed through this line input, press the LINE A input select button on the front panel.

VIDEO IN connector(BNC type)
AUDIO IN jack(monaural)(phono type)
Connect to the video and audio outputs of video equipment such as VCRs or video disc players.
For a loop-through connection, connect to the video and audio outputs of another monitor.

VIDEO OUT connector(BNC type)
AUDIO OUT jack(monaural)(phono type)
For a loop-through connection, connect to the video and audio inputs of another monitor.
When a connecting cord is connected to the VIDEO OUT connector, the 75-ohm termination of the input is automatically released and the signal input to the VIDEO IN connector is output from this connector.

15 LINE B
To monitor the input signal fed through this line input, press the LINE B input select button.

Y/C 75 Ω termination switch
When only the Y/C IN connector is connected (i.e. nothing is connected to the Y/C OUT connector), set this switch to ON.
When both Y/C IN and OUT connectors are connected together for a loop-through connection, set this switch to OFF.

Y/C IN connector(4-pin mini-DIN)
Connect to the Y/C output of video equipment.
AUDIO IN jack(monaural)(phono type)

Y/C OUT connector(4-pin mini-DIN)
For a loop-through connection, connect to the Y/C input of another monitor.
AUDIO OUT jack(monaural)(phono type)

[16] RGB A interface unit

16, 64 COLOR/8 COLOR selector
Press this selector (⏍) when digital RGB equipment having 16- or 64-color mode is connected to the RGB A connector. The 16- or 64-color mode is automatically selected by sync polarity. Keep the selector released (⏏) for digital RGB equipment having the 8-color mode.

DIGITAL/ANALOG selector
Press this selector (⏍) when video equipment having digital RGB output is connected to the RGB A connector. Release the selector (⏏) for equipment having analog RGB output.

RGB A connector (D-sub 9-pin, female)
Connect to video equipment having either digital or analog RGB output.
To monitor the input signal fed through this connector, press the RGB A input select button.

[17] SUPERIMPOSE switch
Set this switch to ON (⏍) to display the composite video signal from a laser disc player, etc., or to perform superimposition. In this case, the RGB H/V SHIFT, RGB H/V SIZE and RGB PICTURE controls do not function.
Set this switch to OFF (⏏) to display the RGB signal from a microcomputer, etc. In this case, the sync signal should be supplied to pin 3 (H. sync) or pin 11 (V. sync) of the RGB B connector.

Notes

- When the RGB B/NORMAL mode select signal is supplied to pin 10 of the RGB B connector with the SUPERIMPOSE switch set to ON, the previously selected LINE A or LINE B indicator lights together with the RGB B indicator.
- Synchronize the line signal of the video equipment that is superimposing with the signal of RGB equipment.

[18] RGB B connector (D-sub 25-pin, male)
Connect to video equipment having either digital or analog RGB output.
To monitor the input signal fed through this connector, press the RGB B input select button.

[19] RGB A AUDIO input jack (phono type)
Connect to the audio outputs of the RGB equipment connected to the RGB A connector.

[20] RGB A SELECT connector (minijack)
When ground potential is applied to this connector, signal input from the RGB A connector will be monitored regardless of the setting of the input select buttons on the front panel. If a power supply of 5 V is applied to the connector or the circuit is open, the input signal selected with the input select buttons will be monitored.
This connector allows the input source monitored to be selected with external equipment.

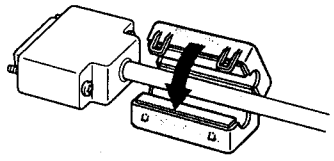
[21] CONTROL S input connector (minijack)
Connect to the CONTROL S output of video equipment. The power on/off, input select, volume and picture settings can be remotely controlled through the equipment connected.

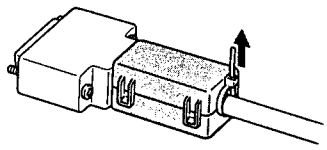
Note

Mutual interference of deflection may occur when several monitors are ranged side by side for a loop-through connection, as this unit is compatible with the signals of high horizontal frequencies. In such a situation, allow adequate space between each unit.

[22] Earphone jacks
Phone 1 :When the earphone is connected, the sound through the speaker is also audible.
Phone 2 (Switched) :When the earphone is connected, the sound through the speaker is not audible.
If a stereo headphone plug is inserted to Phone 1 or Phone 2, the monaural sound will be heard from both the left and right channels.

When the monitor is connected to the RGB equipment, attach the ferrite core (supplied) to the both ends of the shielded RGB cable (not supplied).

1 
Close the lid.

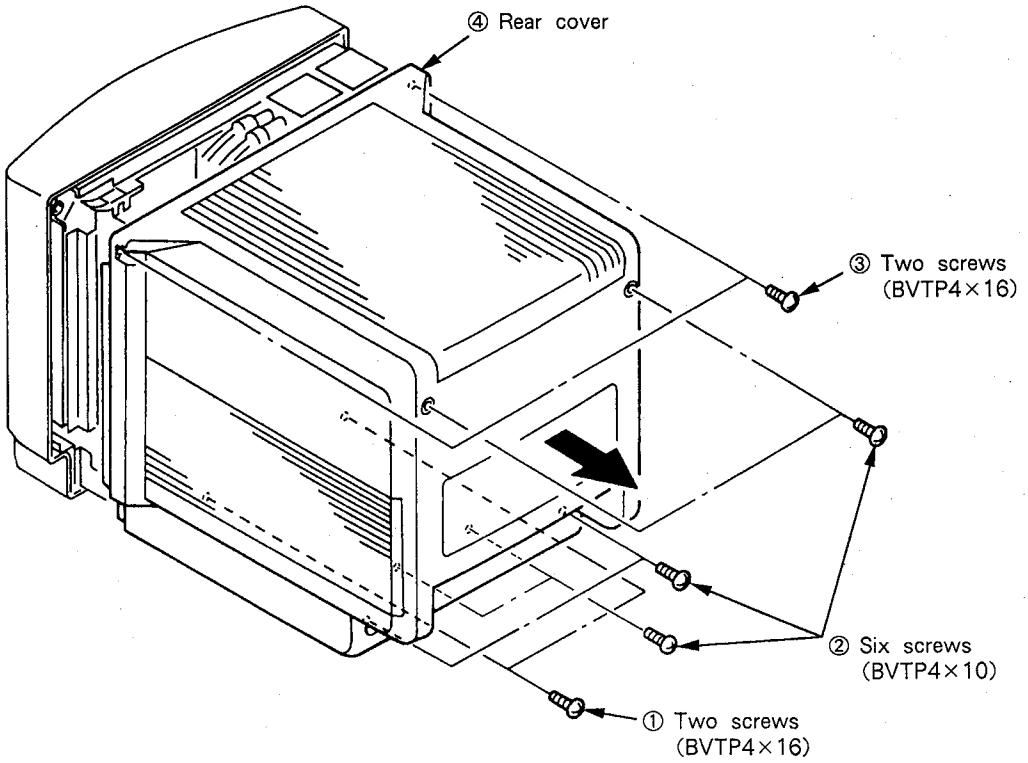
2 
Pull the plastic binder (supplied) tightly.

Note

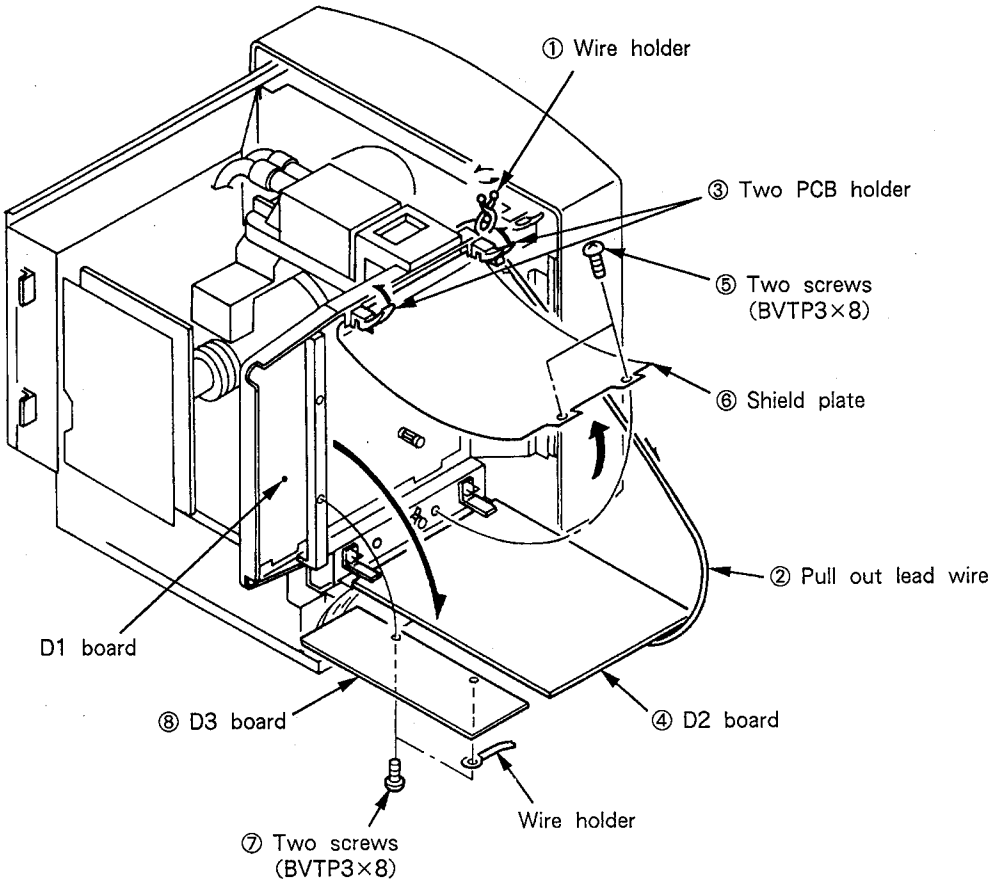
If you do not attach the ferrite core on the shielded RGB cable, the monitor will not conform to mandatory FCC standards.

SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL

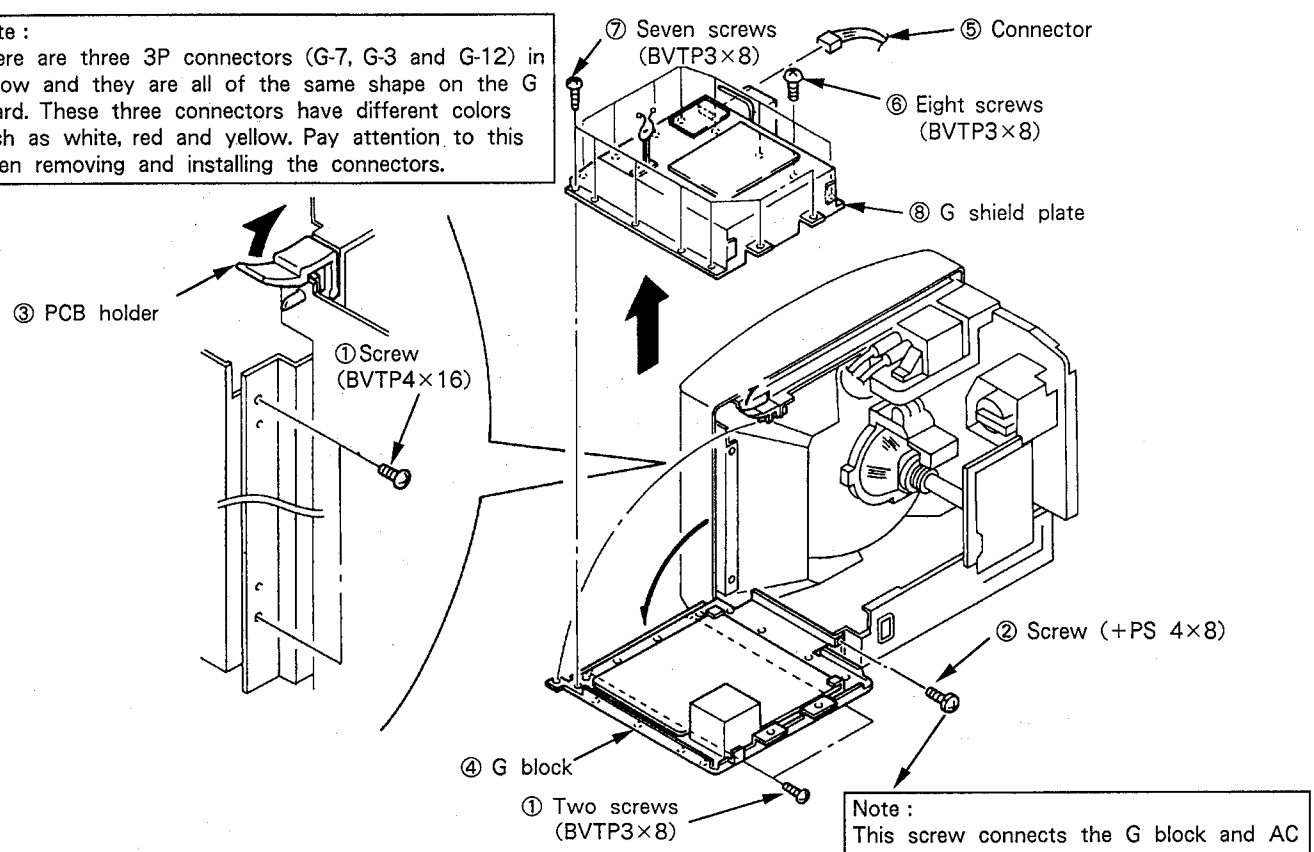


2-2. D1, D2 AND D3 BOARDS REMOVAL



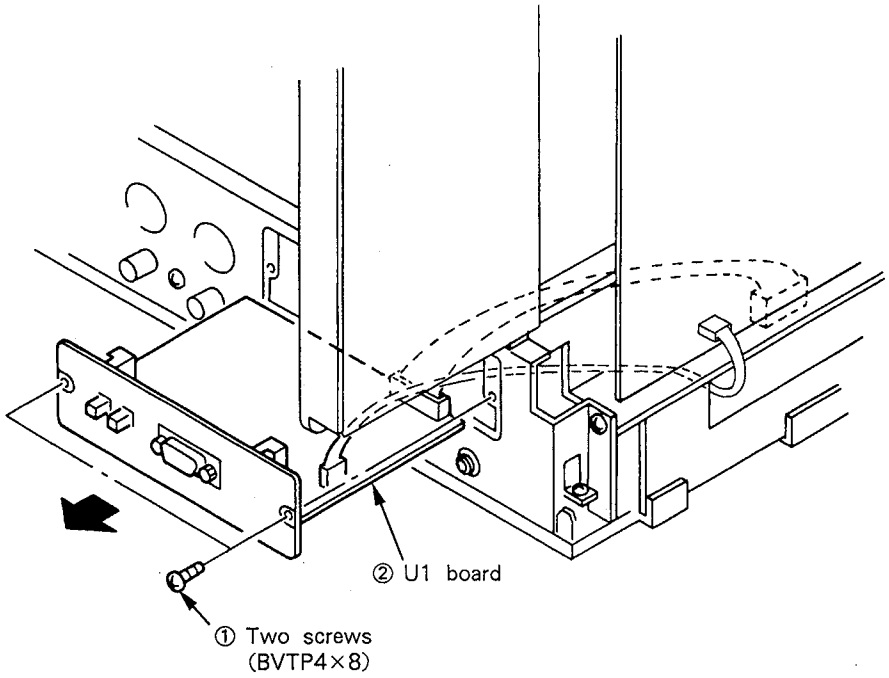
2-3. G BOARD REMOVAL

Note :
There are three 3P connectors (G-7, G-3 and G-12) in a row and they are all of the same shape on the G board. These three connectors have different colors such as white, red and yellow. Pay attention to this when removing and installing the connectors.

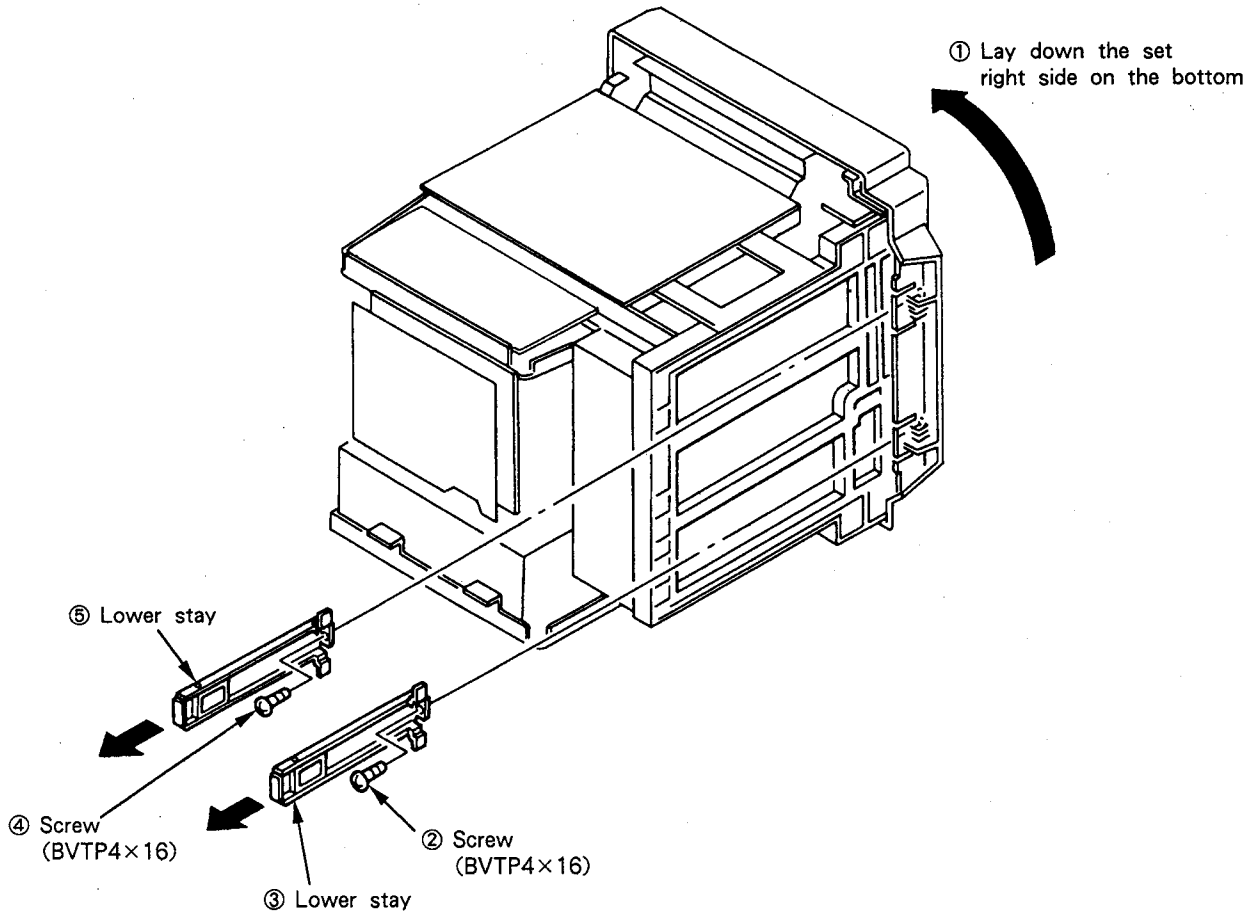


Note :
This screw connects the G block and AC inlet.
The G block can be removed by loosening this screw. Firmly re-tighten this screw when re-assembling the G block.

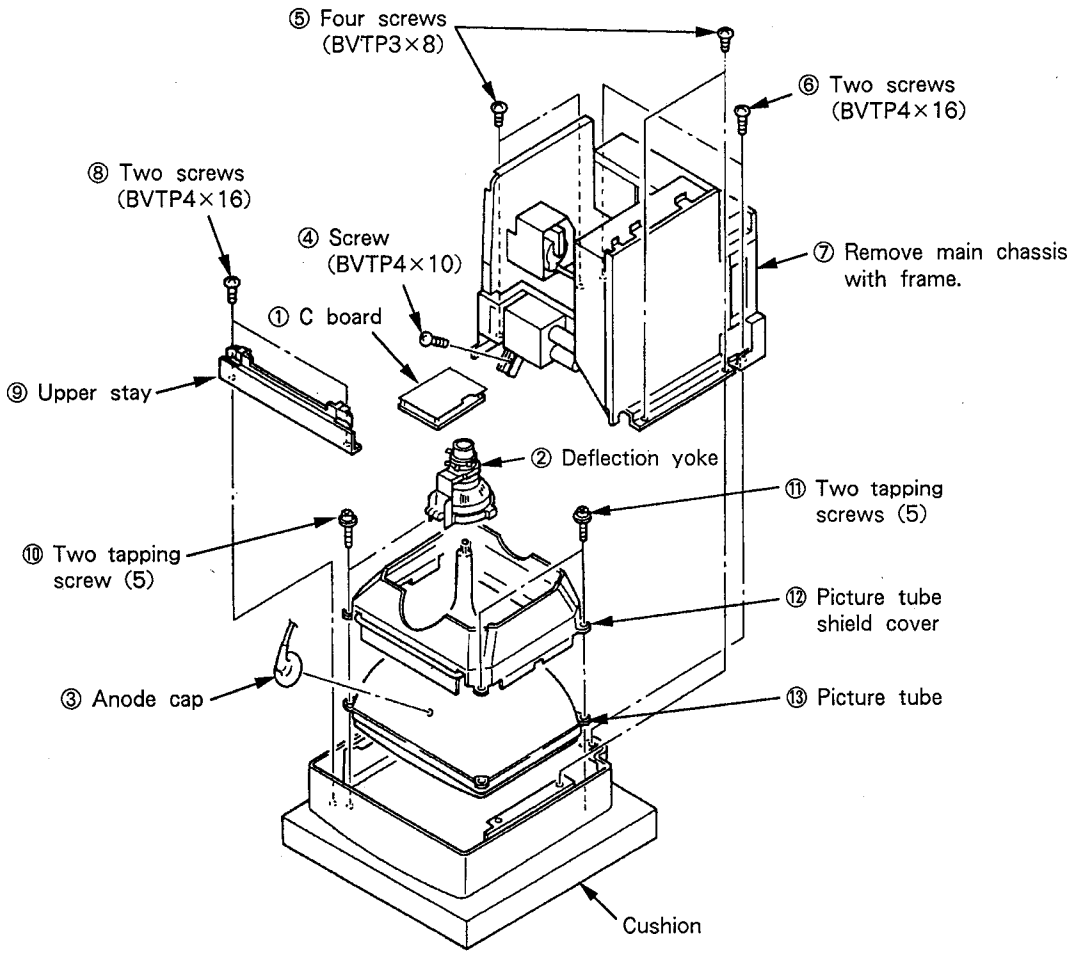
2-4. U1 BOARD REMOVAL



2-5. LOWER STAYS REMOVAL



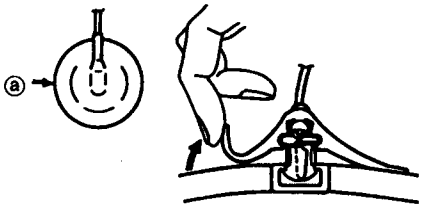
2-6. PICTURE TUBE REMOVAL



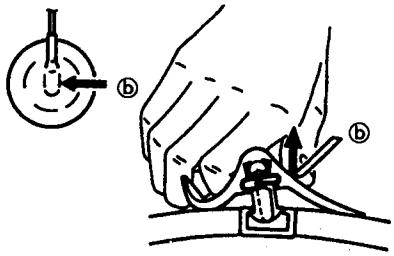
• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

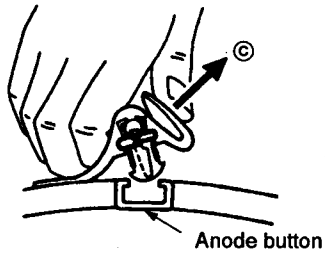
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



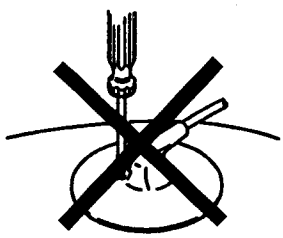
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

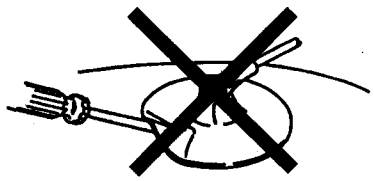


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!
② Don't press the rubber hardly not to hurt inside of anode-caps!
A metal fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SET-UP ADJUSTMENTS

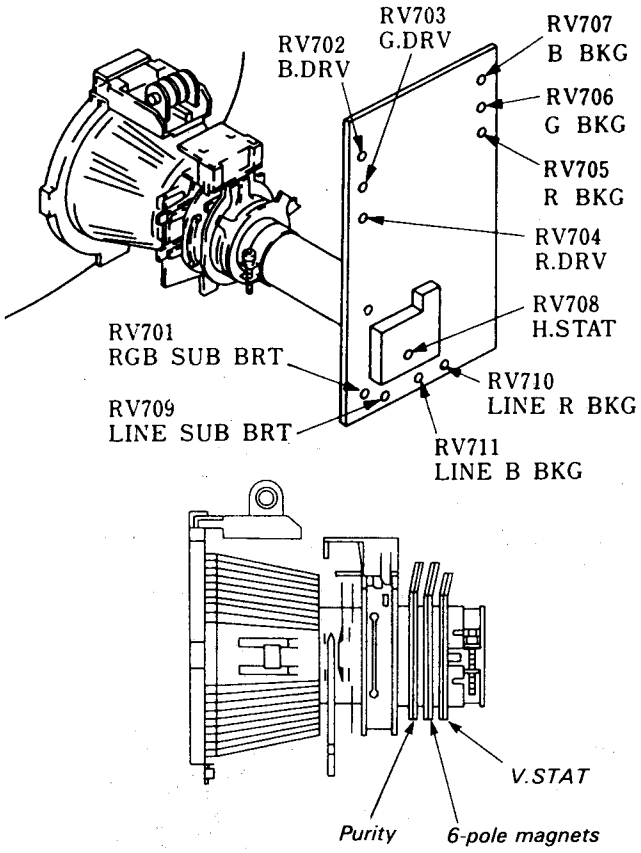
3-1. LANDING ADJUSTMENT

Preparations:

1. Face the set CRT surface toward the east or west in order to lessen the effect of geomagnetism.
2. Turn the set power switch on and degauss.

Adjustment:

1. Input a white signal.
2. Perform rough adjustment of white balance, screen (G2), horizontal convergence and focus. The purity adjustment knob should be at the center position at this time. (Fig. 1)
3. Set C board R BKG VR (RV705) to maximum and G BKG VR (RV706) and B BKG VR (RV707) to minimum.
4. Move the deflection yoke back and adjust the purity magnet so that the entire picture is as shown in Fig. 2.
5. Adjust so that the entire picture becomes Green while moving the deflection yoke forward.
6. Use the G BKG VR (RV706) and B BKG VR (RV707) to check and adjust each color following steps 3 - 5.
7. When landing at the corners is not correct, perform magent correction (Fig. 3).
8. When the position of the deflection yoke is finalized, secure with the bracket.



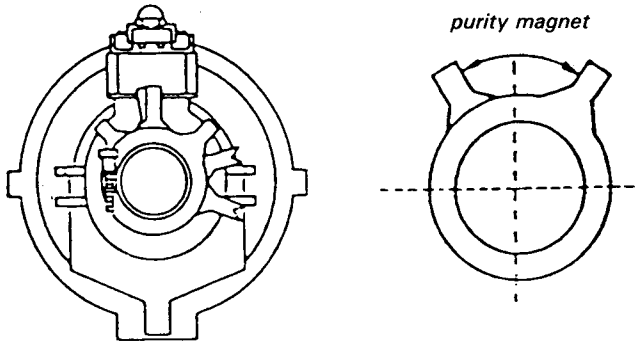


Fig. 1

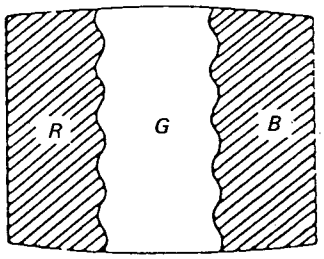


Fig. 2

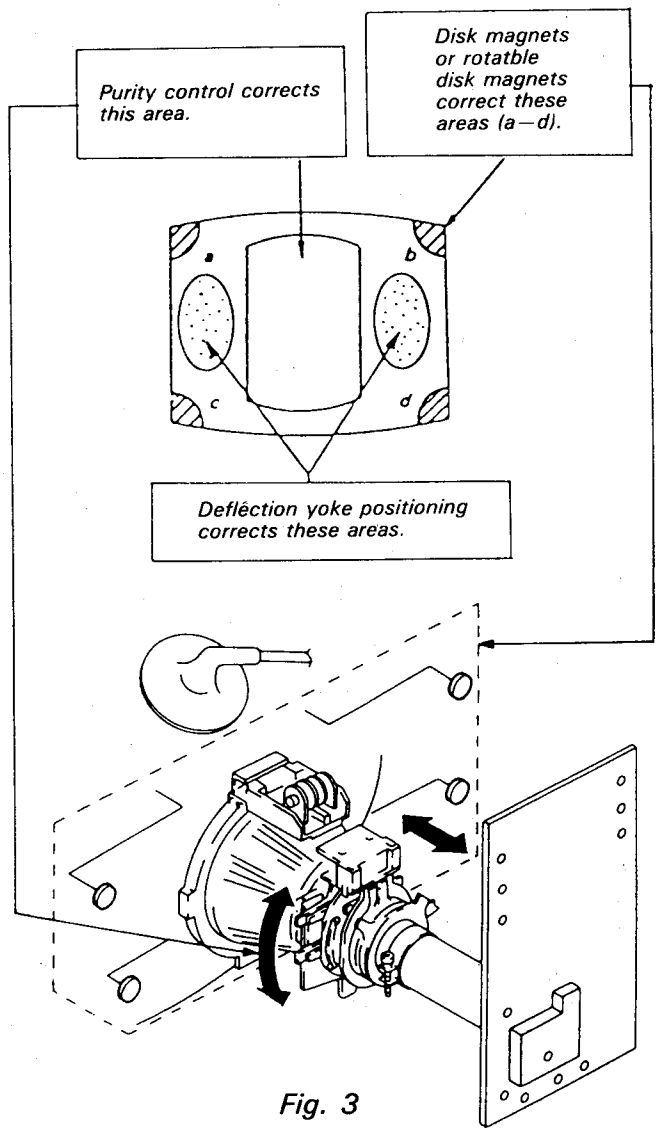


Fig. 3

3-2. DEFLECTION YOKE NECK ADJUSTMENT

Perform this adjustment when there is misconvergence and pincushon distortion at the top and bottom of the picture.

1. Tilt the deflection yoke up and down to adjust when the pincushion distortion is not the same at the top and bottom of the picture. (Fig. 4)

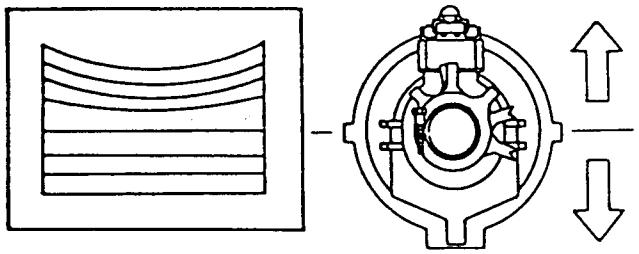


Fig. 4

2. When there is misconvergence at the top and bottom of the picture as shown in Fig. 5, tilt the deflection yoke to the left and right to adjust.

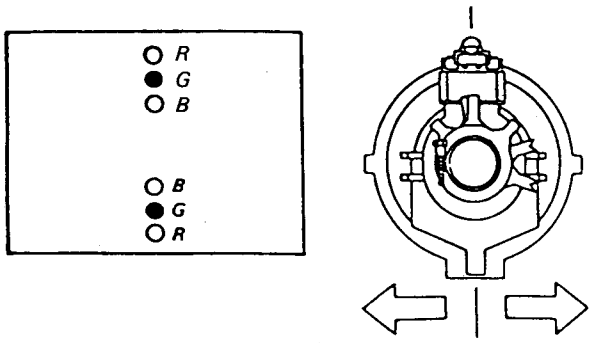
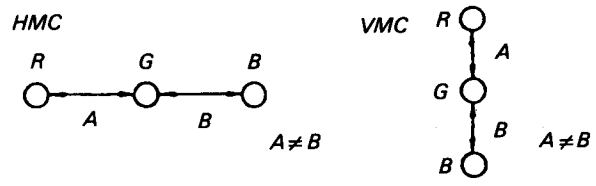


Fig. 5



Dot Movement due to 6-pole Magnet movement

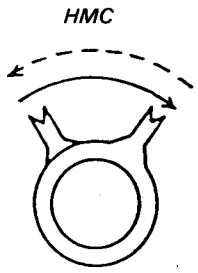


Fig. 6

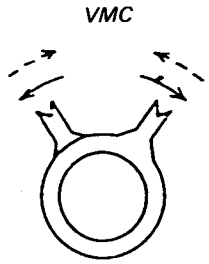
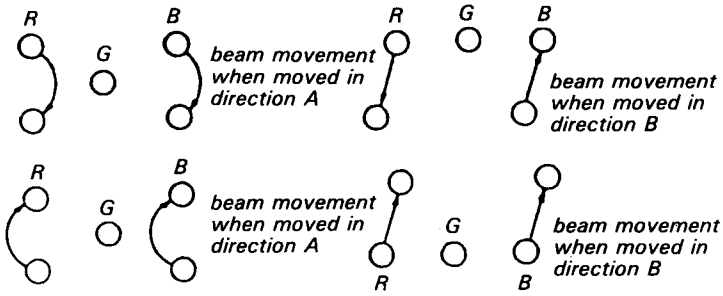


Fig. 7

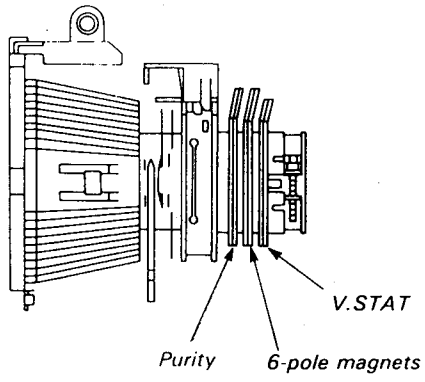


1) Convergence Adjustment for Picture Center (H. STAT, V. STAT)

1. Input a dot signal, and with BRT at minimum, adjust for optimum picture with PICTURE.
2. Line up picture center nd horizontal direction RGB dots with H. STAT VR (RV708).
3. Line up picture center and vertical direction RGB dots with V. STAT magnet.

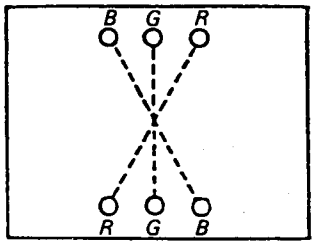
2) Picture center horizontal direction asymmetrical misconvergence (HMC)
Picture center vertical direction asymmetrical misconvergence (VMC)

4. For HMC, move the six-pole magnet to adjust so that the R and B dots are symmetrical to the right and left of the G dot.
5. For VMC, move the six-pole magnet to adjust so that the R and B dots are symmetrical above and below the G dot.



3) Picture Periphery Convergence Adjustment

1. For Y crosstalk, adjust with the Y crosstalk correction magnet.



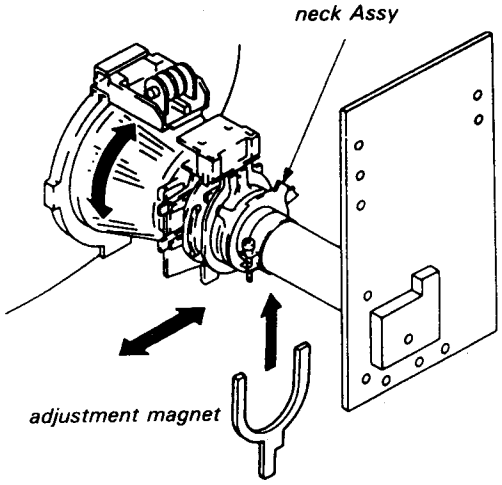
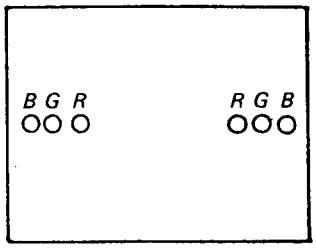


Fig. 8

2. Adjust with the X crosstalk adjustment magnet when there is H TILT.



When red dots are off to the inside at the right and left.

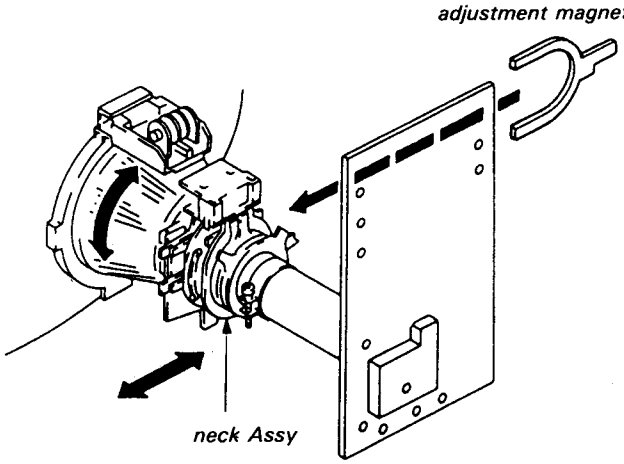
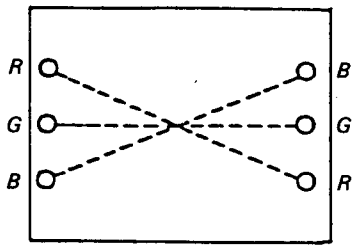
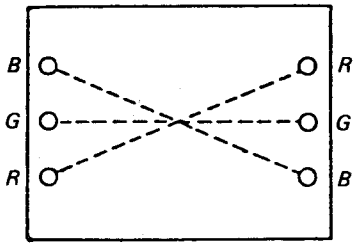


Fig. 9

3. Adjust with the deflection yoke reactor correction coil when there is X crosstalk. (Fig. 10)

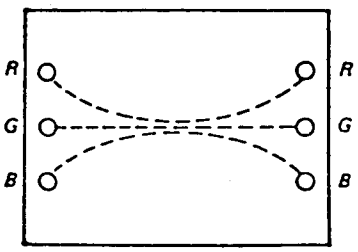


In this case adjust with coil A in Fig. 11.



In this case adjust with coil B in Fig. 11.

4. Adjust with the deflection yoke reactor correction coil when there is X bow.



In this case adjust with coil C in Fig. 11. At this time put D core in so that the marked side is on side A. (Fig. 11) Note: Paint D core after adjustment.

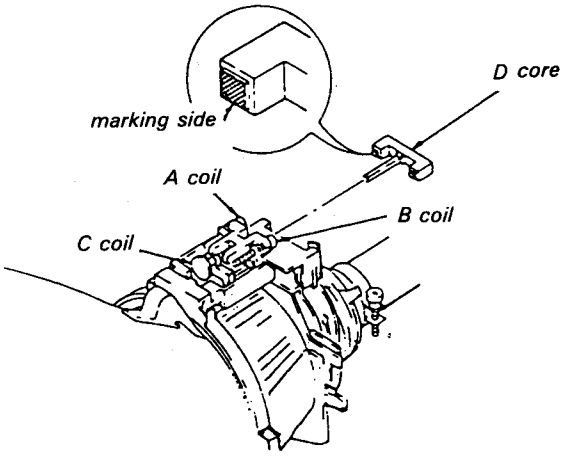


Fig. 11

3-3. SCREEN ADJUSTMENT

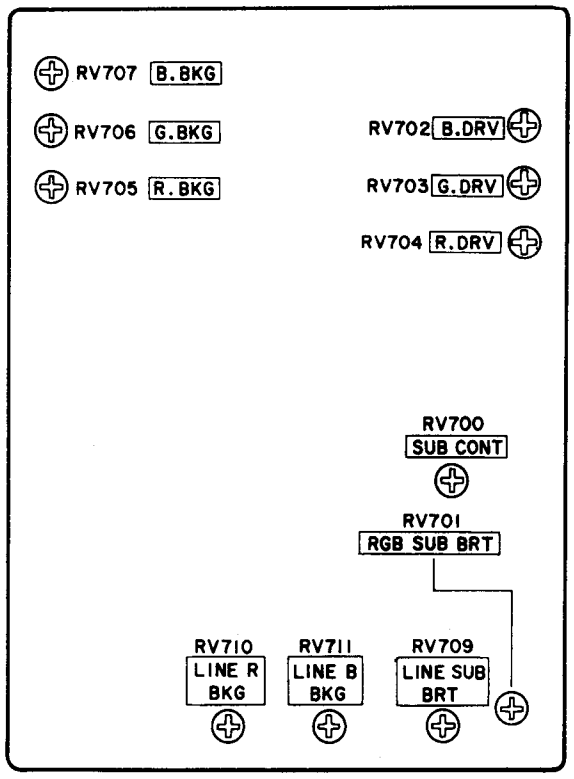
(1) Input no signal at RGB mode.
(2) Set the C board VRs as shown below.
RV705 ~ 707 R. G. B. BKG: MIN.
RV710, 711 LINE R. B BKG: MIN.
RV702 ~ 704 R. G. B DRV: MAX.
RV701 RGB SUB BRT: MAX.
RV709 LINE SUB BRT: CENT.
RV700 SUB CONT: CENT.
(3) Lower the raster gradually by turning RV502 (SCREEN), and check which color remains at last.
(4) Apply 145 V from the DC power supply to the cathode corresponding to the color remaining in step 3.
(5) Adjust RV502 (SCREEN) to the point immediately before the raster is cut off.

3-4. WHITE BALANCE ADJUSTMENT (1)

(1) Input an all white signnal at RGB mode, and adjust screen size with user control volume so that the all of effective screen is bright.
(2) Demagnetize the CRT with a degausser.
(3) Set trimmers as follows:
(i) RV705 (R. BKG)
RV706 (G. BKG) — Min.
RV707 (B. BKG)
(ii) RV704 (R. DRV)
RV703 (G. DRV) — Max.
RV702 (B. DRV)
(iii) RV701 (RGB SUB.BRT) ..... CENT.
(iv) RV709 (LINE SUB.BRT)..... CENT.
(v) BRT VR ..... CENT
(vi) PIC ..... Max.
(vii) RGB PIC ..... Max.
(4) Attach the analyzer sensor to the center of the CRT.
(5) Set video signal level to 10 IRE.
0.10 ± 0.002 Vp-p (terminated at 75 ± 1%).
(6) Adjust cutoff W/B with the BKG VRs (RV705, 706, 707).
Cutoff: 3 Nit (3 ~ 4)
(7) Set video signal level to 100 IRE.
0.70 ± 0.002 Vp-p (terminated at 75 ± 1%).
(8) Adjust highlight White Balance with the DRV VRs (RV702, 703, 704).
* If a color is too bright, lower its setting.
(9) Tracking
Repeat steps 5 to 8 so that cutoff and highlight White Balance fall within the specification.
Specification: 9300°K + 8 MPCD, within 2 JND
(10) Set video signal level to 10 IRE.
0.07 ± 0.002 Vp-p (terminated at 75 ± 1%)
Adjust RGB SUB BRT with RV701 so that a slight brightness is obtained.
(11) Set video signal level to 0 IRE and confirm that a total cutoff is obtained.

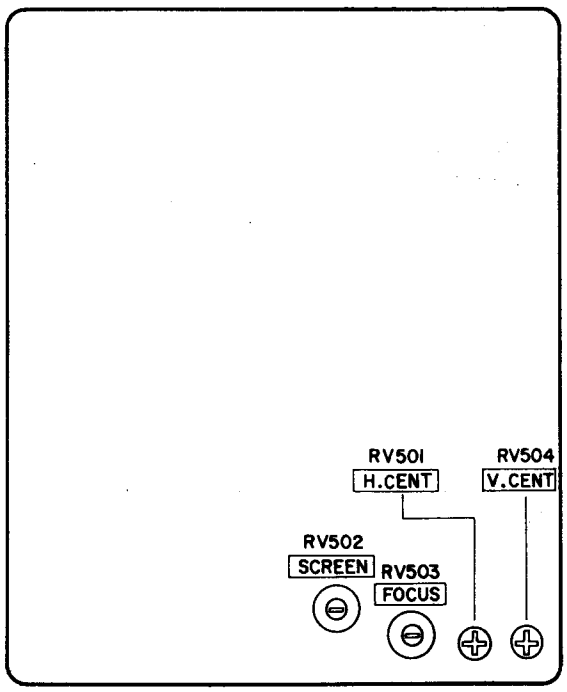
Note :
Do not use a metal screwdriver when adjusting the C board. Use a core screwdriver which is not made metal, as malfunction will be caused if a metal screwdriver contacts the shield plate.

C BOARD



(COMPONENT SIDE)

DI BOARD



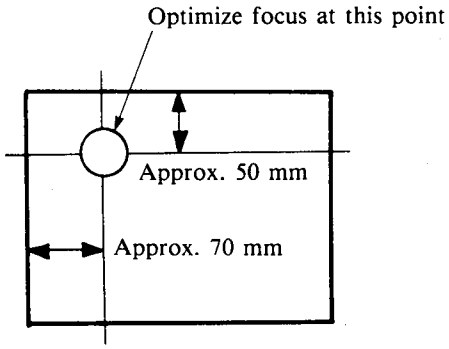
(COMPONENT SIDE)

3-5. WHITE BALANCE ADJUSTMENT (2)

(1) Input a white signal to LINE A.
(2) Change the white signal level and set CRT luminance to 8 NIT.
(3) Adjust white balance with RV711 [B CUT-OFF] and RV710 [R CUTOFF].
(4) Set white signal level to 100 IRE.
(5) Adjust white balance with RV204 [B DRIVE] and RV203 [R DRIVE] on the A board.
(6) Repeat (2) to (5).
(7) Set white signal level to 10 IRE and adjust RV709 [SUB BRT 2] so that a signal brightness is obtained.
Also confirm that a total cutoff is obtained at 0 IRE.

3-6. FOCUS ADJUSTMENT

1) In the RGB A mode, display characters on the whole screen at fh 31.47 kHz, 60 Hz.
2) Adjust RV503 (FOCUS) so that focus is optimum at the point shown below, with the following settings: BRT center, PIC max., RGB PIC max.



3) Change to a white signal.
4) Confirm that there are no magenta rings.

SECTION 4
SAFETY RELATED ADJUSTMENTS

⊠R1751, +B (Vcc) MAX Check

Always perform the checks below after replacing the following parts (marked ◪ on the circuit diagram).

◪D2 board : IC1501, IC1503, IC1505, Q1502, R1503, R1504, R1507, R1508, R1509, R1510, R1511, R1516, R1519, R1521, R1522, R1534, R1540, R1541, R1546, R1565, R1642, R1653, R1673, R1678, R1751

◪D1 board : R592, R595

◪G board : Q907, R916, R919

1. Input 130$^{+2}_{0}$V AC (distortion 3% or less).
2. In the RGB mode, receive a f_H 15.734kHz cross-hatch signal.
3. ＊Contrast·····minimum
   ＊Bright ·····minimum
4. Connect a digital multimeter to TP1502.
5. Confirm that voltage at TP1502 (Vcc) is 57.0 to 57.8 when RV1501 on the D2 board is set to MAX.
6. Switch to a f_H 21.86kHz cross-hatch signal and confirm that voltage at TP1502 is 79.5V or less when RV1501 is set to MAX at the settings indicated in 3. above.
7. Switch to a f_H 31.47kHz cross hatch signal and confirm that voltage at TP1502 is 114.0V or less when RV1501 is set to MAX at the settings indicated in 3. above.
8. In the VIDEO mode, receive a cross-hatch signal and confirm that voltage at TP1502 is 62.2V or less when RV1501 is set to MAX at the settings indicated in 3. above.
9. Switch to a f_H 21.86kHz color-bar signal and set PIC to MAX, BRIGHT to the center, and RGB PIC to MAX.
10. Adjust RV1501 so that voltage at TP1502 becomes 77.0$^{+0}_{-1.0}$V.
11. In case the above specification cannot be satisfied, change the R1678 resistor rating.

△ R1751 (1/4W RN. 150 to 2.7k or open)

⊠R1548 Hold-down Circuit Check

Always perform the checks below after replacing the following parts (marked ◪ on the circuit diagram).

◪D2 board : IC1502, IC1504, D1510, R1616, R1622, R1625, R1626, R1631, R1548, R1552, R1553, R1554, R1564

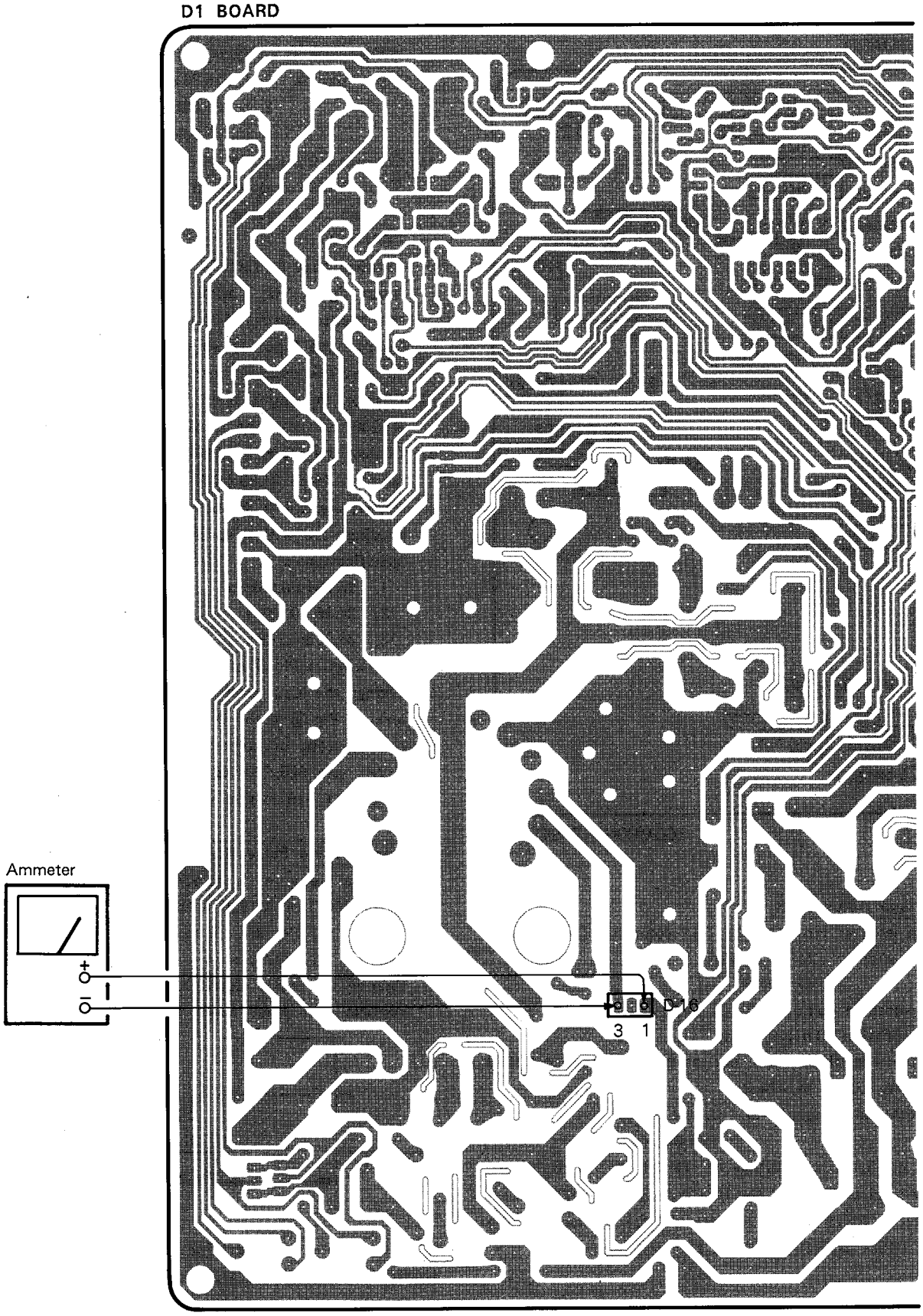
1. Receive a white signal.
2. ＊Contrast·····maximum
   ＊Bright ·····maximum
3. Connect a digital multimeter to TP1503.
4. Confirm that the digital multimeter voltage reading is 6.5±1.5V DC.
5. Confirm that there is not a shorting plug inserted into the D-16 connector, then connect an ammeter.
6. Set the VIDEO mode (high level at Pin ⑨ of the D-21 connector) and receive the cross-hatch signal.
7. Adjust the bright and contrast controls to minimum and set the ammeter reading to IABL=100±30 [μA].
8. Externally apply a voltage to TP1503 and confirm that the hold-down circuit operates at 8.65$^{+0}_{-0.05}$V and the screen is erased.
9. In the same way, externally apply a voltage to TP1503 and confirm that the hold-down circuit does not operate at 8.25$^{+0}_{-0.05}$Vdc.
10. Receive a white signal.
11. Adjust the bright and contrast controls to maximum and set the ammeter reading to IABL=600±40 [μA].
12. Externally apply a voltage to TP1503 and confirm that the hold-down circuit operates at 7.90$^{+0}_{-0.05}$V and the screen is erased.
13. In the same way, externally apply a voltage to TP1503 and confirm that the hold-down circuit does not operate at 7.60$^{+0}_{-0.05}$Vdc.
14. In case the above specifications cannot be satisfied, change the R1548 resistor rating.
    △R1548 (1/4WRN 18k to 100k)

HVR Check After Replacement

After replacing the HVR, be sure to confirm that the voltage below is being output.

1. Receive a white signal.
2. ＊Contrast·····maximum
   ＊Bright ·····maximum
3. Connect a digital multimeter to TP1503.
4. Confirm that the digital multimeter voltage reading is 6.5±1.5VDC.

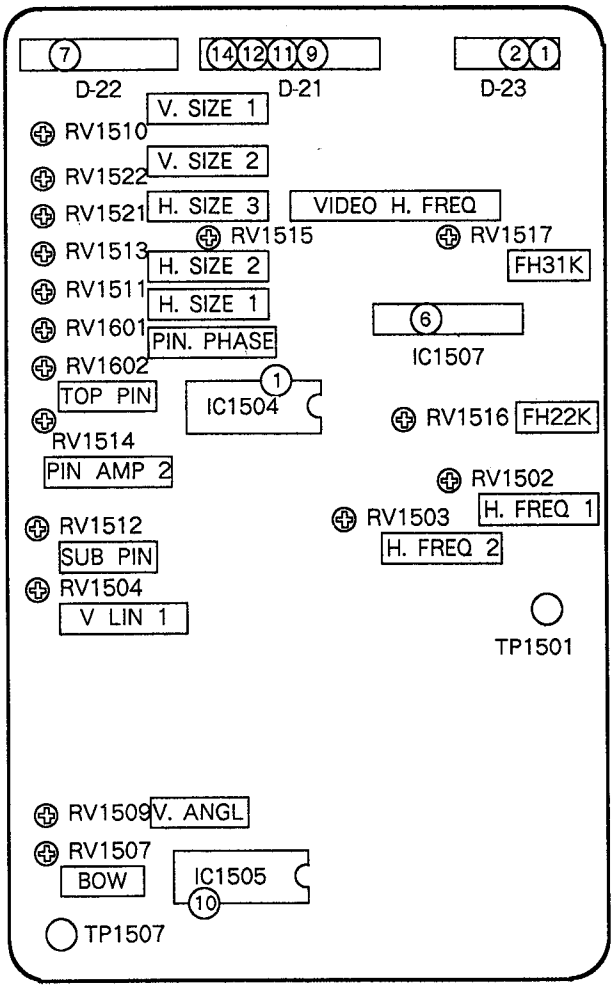
D1 BOARD



SECTION 5
CIRCUIT ADJUSTMENTS

5-1. D1, D2 BOARDS ADJUSTMENTS

D2 BOARD



(COMPONENT SIDE)

Vc Voltage Adjustment

* High level at Pin ⑨ of the D-21 connector (RGB Mode)

1) Input signal f_H : 15.735kHz
   fv : 60Hz
   Measurement point : TP1501 (Vc)
   Specification : 3.50±0.05Vdc
   If the specification is not satisfied, adjust △R1678 (1/4W, 1.0k Ω to 47k Ω).
2) Switch input signals to f_H : 31.47kHz
   fv : 60Hz
   and confirm that voltage at TP1501 is 7.0±0.1Vdc

※ Low level at Pin ⑨ of the D-21 connector (VIDEO Mode).

1) Select △R1729 (1/4W, 24 to 270k Ω) so that voltage at TP1501 is 3.50±0.05Vdc, and solder it.

Horizontal Oscillation Frequency Adjustment

* Always perform Vc voltage adjustment first.

* High level at Pin ⑨ of the D-21 connector (RGB Mode).

Input signals 1. f_H : 15.734kHz fv : 60Hz
2. f_H : 21.86kHz fv : 60Hz
3. f_H : 33.00kHz fv : 60Hz

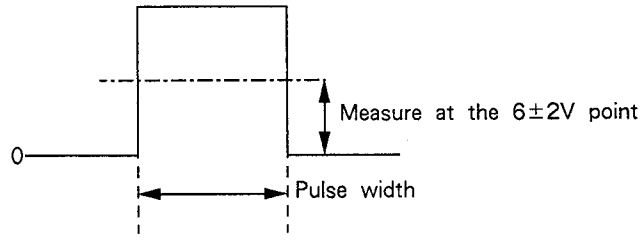
1) Connect 10 μF/16V chemical capacitor between Pin ① of IC1504 and ground.
2) Connect a frequency counter to Pin ⑩ of IC1505 (TP1507).
3) Confirm that RV1503 is set to the mechanical center, input signal NO. 3 above and adjust RV1502 so that the counter reads 33.00±0.1kHz.
4) Change the input to signal NO. 1 and adjust RV1503 so that the counter reads 15.734±0.05kHz.
5) Change the input back to signal NO. 3 and adjust RV1502 so that the counter reads 33.00±0.1kHz.
6) Change the input to signal NO. 2 and confirm that the counter reads 21.86±0.3kHz.
7) Repeat steps 4 to 6 above and adjust tracking so that readings are within specifications for all three signals.
   specifications :
   1. 15.734±0.05kHz
   2. 21.86±0.3kHz
   3. 33.00±0.1kHz.

※ Low level at Pin ⑨ of the D-21 connector (VIDEO Mode).

1) Change the input from RGB mode to VIDEO mode (turn level at Pin ⑨ of the D-21 connector to low) and receive a monoscope or color-bar signal.
   Note : use 525/60 signal.
2) Adjust RV1515 so that the counter reads 15.734±0.1kHz.

Horizontal Drive Pulse Adjustment

1) Input a signal of f_H 15.734kHz, fv 60Hz, monitor Pin ⑩ (TP1507) of IC1505 with an oscilloscope and adjust △R1670 (1/4W, RN, 1.0 to 100k Ω) so that pulse width becomes 24.0±1.5 μs.
2) Change the input signal to f_H 31.47kHz, fv 60Hz, and confirm that pulse width is 12.0±1.0 μs.

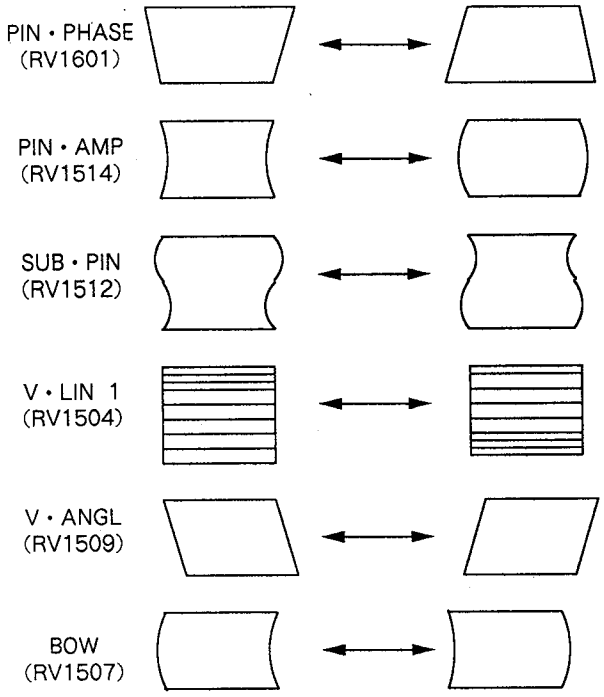


f_H 15.734kHz ·····24.0±1.5 μs
31.47kHz ·····12.0±1.0 μs

Deflection Adjustment

1) In the VIDEO mode, input a monoscope signal, turn the controls listed below, and confirm that they work properly.

RV1510 V • SIZE 1
RV1511 H • SIZE 1



Horizontal size specification : 15.0±0.3 frame
Vertical size specification : 11.2±0.3 frame

2) Set to the RGB mode and input a cross hatch signal of f_H 31.47kHz and fv 60Hz.

Adjust the controls below.

RV1513 H • SIZE 2
RV1514 PIN • AMP 2
RV1602 TOP • PIN

3) Set to the SIZE FIX mode, and adjust the controls below.

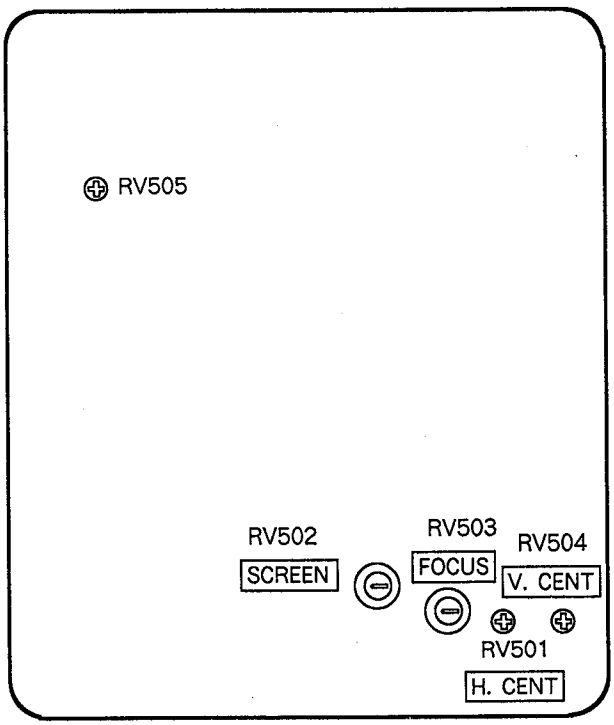
RV1522 V • SIZE 2
RV1521 H • SIZE 3

SIZE FIX mode : D-21 connector ⑪ ⑫ open
⑭ High

4) Turn the controls below and confirm that they work properly. Then return them to their mechanical centers.

RV501 H • CENT
RV504 V • CENT
RV502 SCREEN
RV503 FOCUS

D1 BOARD



(COMPONENT SIDE)

Vertical Sync Frequency Discrimination Circuit Adjustment

* High level at Pin ⑨ of the D-21 connector

1) In the RGB mode, input a signal of f_H 15.7kHz and fv 64kHz.
2) Adjust RV1505 to the exact point where vertical size is enlarged.

Horizontal Sync Frequency Discrimination Circuit Adjustment

※ Perform after VC Voltage Adjustment.

1) Input a color-bar signal of f_H 33.00kHz and fv 60Hz.
2) Adjust RV1516 so that the voltage of Pin ④ of IC1507 becomes 5.20±0.05V.
3) Adjust RV1517 so that the voltage of Pin ⑥ of IC1507 becomes 7.55±0.05V.
4) Confirm that at RGB mode, the voltage of connector D-23 ② is more than 12V when the signal of f_H 21.86kHz is inputted and that is less than 2.0V when the signal of f_H 24.83kHz is inputted.
5) Confirm that at RGB mode, the voltage of connector D-23 ① is more than 12V when the signal of f_H 33.00kHz is inputted and that is less than 2.0V when the signal of f_H 35.00kHz is inputted.

+B (Vcc) Adjustment

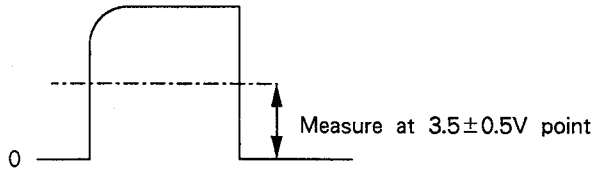
* High level at Pin ⑨ of the D-21 connector (RGB Mode)

1) Input a color-bar signal of f_H 21.8kHz and fv 60Hz.
2) Adjust RV1501 so that voltage at TP1502 (Vcc) becomes 77.0$^{+0.5}_{-1.0}$Vdc.

Horizontal Blanking Pulse Adjustment

Note : Perform often Vcc Adjustment.

1) Input a color-bar signal of f_H 31.47kHz and fv 60Hz at RGB mode.
2) Monitor the connector D-22 ⑦ (C. BLK) with an oscilloscope.
3) Adjust RV505 so that the pulse width becomes 4.8±0.1 μs.



5-2. A BOARD ADJUSTMENT

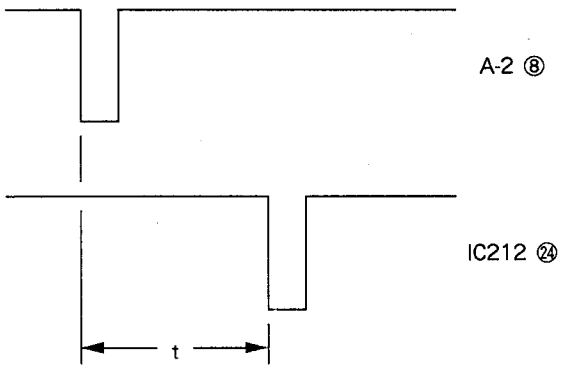
Input a signal to RGB A.

(1) Press RGB A.

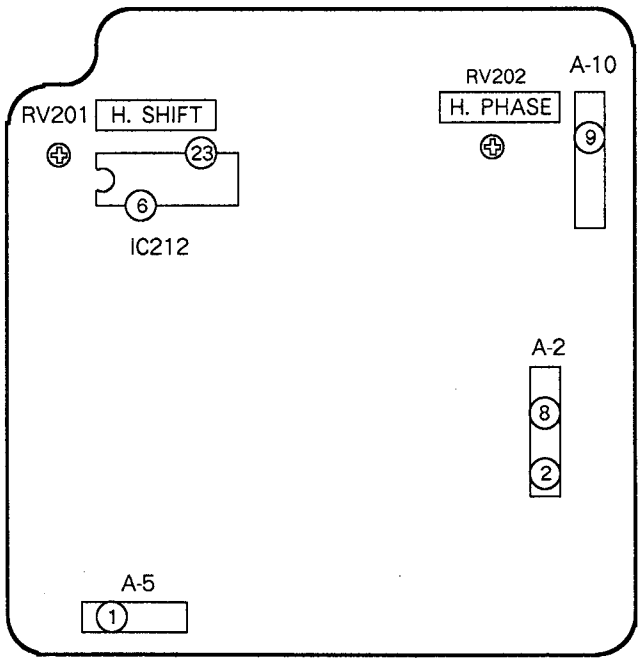
(2) Confirm that a voltage of 12V±0.5V is output to Pin ② of A-2.

(3) Set f_H to 33.00kHz±0.05kHz (negative polarity sync.)

(4) Monitor Pin ⑧ of A-2 and Pin ㉔ of IC212, and adjust RV201 H. SHIFT on the A board to t=24.5 μs±0.1 μs in the figure below.



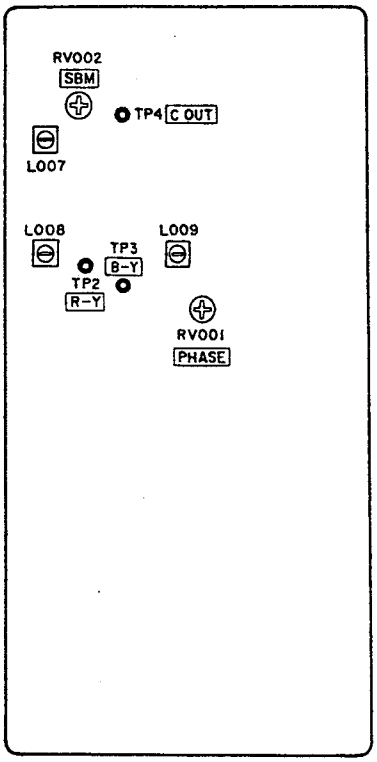
A BOARD



(COMPONENT SIDE)

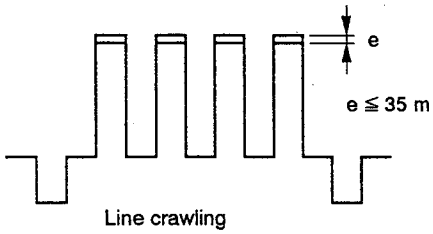
5-3. B BOARD ADJUSTMENTS

B BOARD



PAL adjustments

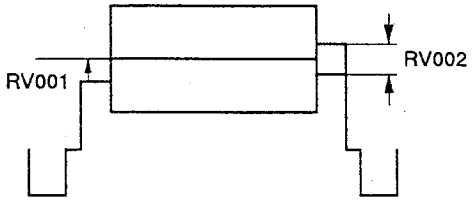
1. PAL line crawling adjustment
   Adjust the line crawling with T001.



Line crawling

2. IHDL and ANTI PAL adjustment
   - Input the special PAL color pattern.
   - Adjust the delay with RV002 SBM.
     (Close the open section at the right side of the wave.)
   - Adjust RV001 PHASE.
     (Align the gray level on the left side of the wave.)

Adjust 1 and 2 while making sure the tracking is correct.

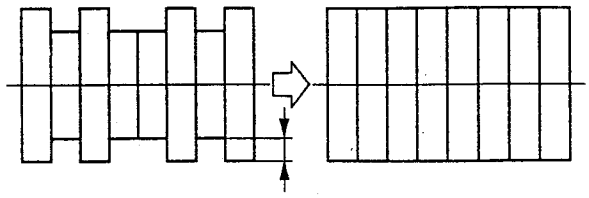


SP CB

SECAM adjustments

Input SECAM color bars.

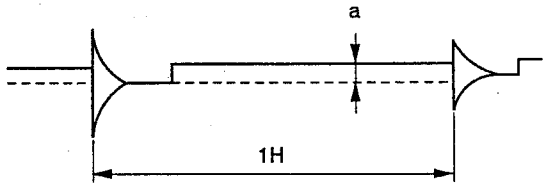
1. Bell filter adjsument
   - Monitor TP-4 C OUT
   - Adjust L007 so that the waveform is flat.



Turn L007 to eliminate overly high and low peaks. (They must all be within 10% of each other.)

C OUT waveform

2. Color balance adjustment
   - Input a SECAM carrier including an all white signal.
   1) R-Y
      - Monitor TP-2 R-Y.
      - Adjust L008 so that a is no greater than 10 mV. (See the figure below.)
   2) B-Y
      - Monitor TP-3 B-Y.
      - Adjust L009 so that a is no greater than 10 mV. (See the figure below.)



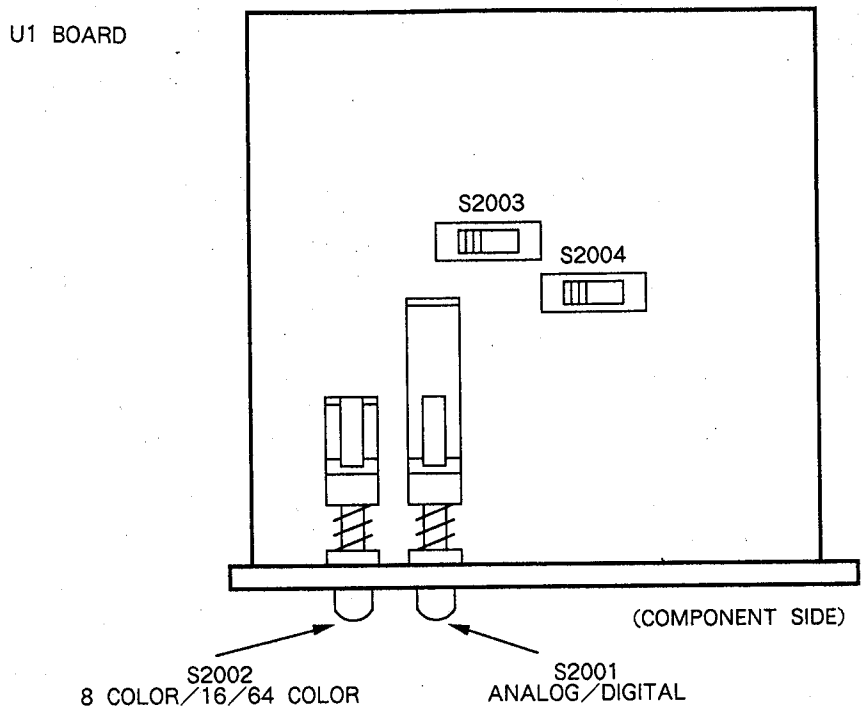
SECAM Color Difference Demodulation Output

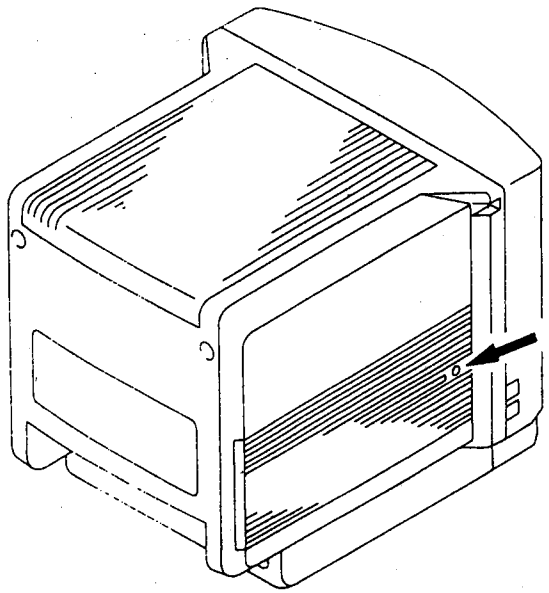
Service Switches on the U1 Board

Normally, when a digital signal is input, differentiation between MDA (monochrome), CGA (16 colors) and EGA (64 colors) can be performed automatically according to sync polarity by setting S1 to 16/64 COLOR. When automatic differentiation is not possible due to signal condition, S2004 is used. S2004 is normally set to the "8" position at the factory.

Change it to 16, 64 or MONO. Then switch S1 to the 8 COLOR position (S1 can be switched between 8 COLOR and 16/64 COLOR, but the display mode when set to 8 COLOR can actually be selected with S2004).

S2003, on the other hand, is used to switch display color in the monochrome mode between green and amber. It is normally set to the green position at the factory.

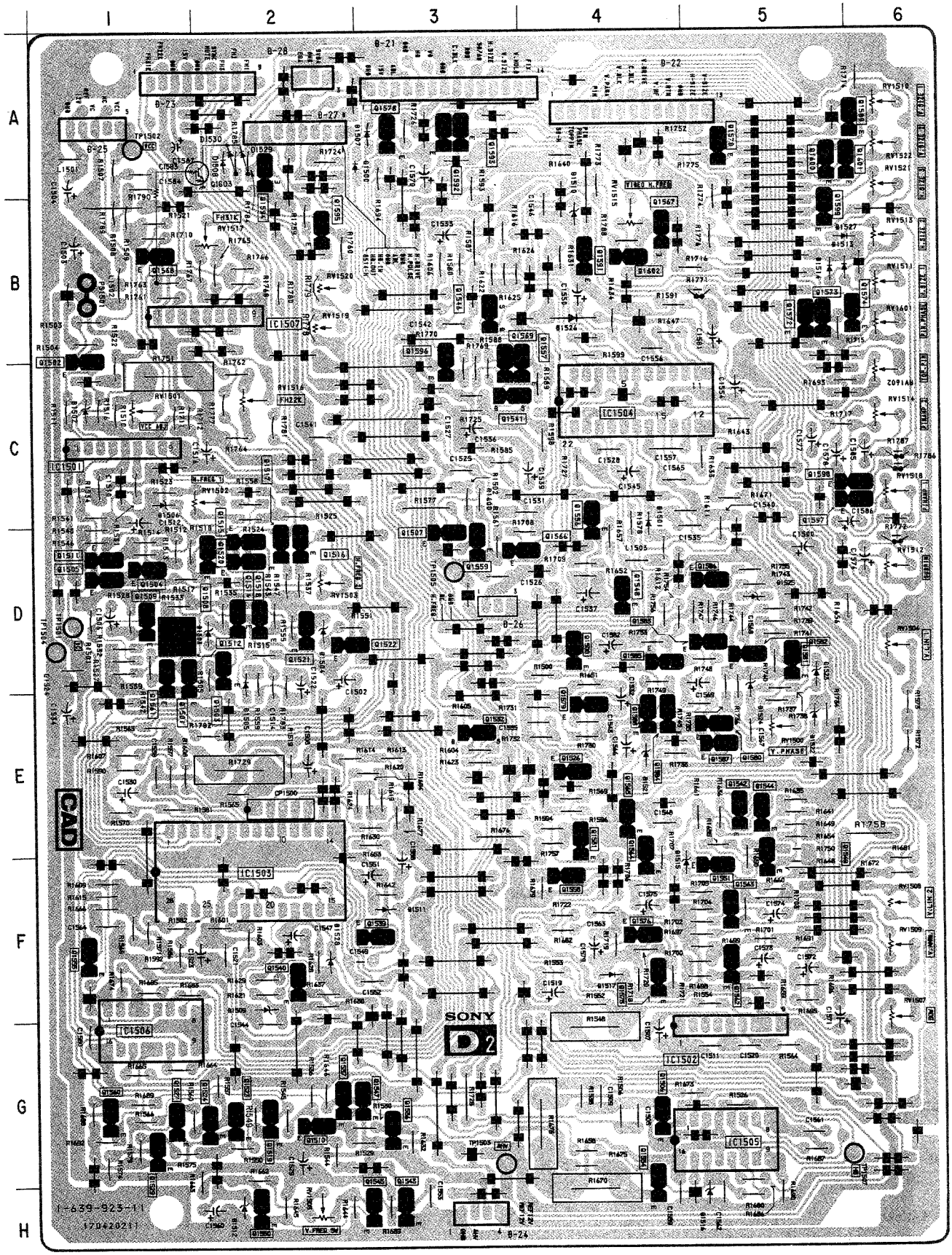




Depending on the input signal, pincushion distortion may occur (this is likely when connecting a NEC PC-9801 or Apple MAC II computer, etc.). In that case, insert a 2-mm screwdriver into the hole on the left side of the unit and turn it to correct distortion.

[H/V OSC] **D2**

—D2 Board—



D2

IC

IC1501	C-1
IC1502	G-5
IC1503	F-2
IC1504	C-4
IC1505	G-5
IC1506	G-1
IC1507	B-2

TRANSISTOR

Q1500	D-4
Q1501	D-1
Q1502	C-1
Q1503	D-2
Q1504	D-1
Q1505	D-1
Q1506	G-4
Q1507	D-3
Q1508	D-2
Q1509	D-1
Q1510	G-2
Q1511	D-1
Q1512	D-1
Q1514	D-2
Q1515	D-2
Q1516	D-2
Q1517	D-2
Q1518	D-2
Q1519	G-2
Q1520	D-2
Q1521	D-2
Q1522	D-2
Q1523	G-2
Q1524	G-2
Q1526	E-4
Q1527	G-1
Q1529	G-1
Q1531	E-4
Q1532	E-3
Q1536	G-3
Q1537	G-2
Q1540	F-2
Q1541	C-3
Q1542	E-5
Q1543	H-3
Q1544	E-5
Q1545	H-3
Q1546	B-3
Q1547	G-2
Q1548	D-4
Q1549	F-5
Q1550	H-2
Q1551	F-5
Q1554	G-4
Q1555	F-1
Q1556	C-4
Q1557	C-3
Q1558	F-4
Q1559	D-3
Q1560	G-1
Q1561	D-1
Q1562	F-5
Q1563	F-5
Q1564	E-4
Q1565	E-4
Q1566	D-3
Q1567	B-4
Q1568	B-1
Q1569	C-3
Q1570	A-5
Q1572	B-5
Q1573	B-5
Q1574	B-6
Q1575	F-4
Q1576	F-4
Q1579	E-4
Q1580	E-5
Q1581	D-5
Q1582	D-5
Q1583	D-5
Q1584	E-4
Q1585	D-4
Q1586	D-5
Q1587	E-5
Q1588	E-4
Q1589	A-6
Q1591	B-4
Q1592	A-3
Q1593	A-3
Q1594	A-2
Q1595	B-2
Q1596	B-3
Q1597	C-6
Q1598	C-6
Q1599	B-5
Q1600	A-5
Q1601	A-5
Q1602	B-4
Q1603	A-2

DIODE

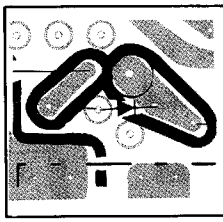
D1501	C-4
D1502	C-1
D1503	D-2
D1504	D-2
D1505	D-2
D1506	C-1
D1507	A-3
D1508	A-2
D1509	F-2
D1510	B-4
D1511	F-3
D1512	H-2
D1513	B-5
D1514	B-5
D1515	F-4
D1516	H-5
D1517	F-4
D1521	E-4
D1522	E-5
D1523	D-5
D1524	E-5
D1525	D-5
D1526	B-4
D1527	B-5
D1528	F-2
D1529	A-2
D1530	A-2

VARIABLE RESISTOR

RV1500	E-5
RV1501	C-1
RV1502	C-2
RV1503	D-2
RV1504	D-6
RV1505	H-2
RV1507	F-6
RV1509	F-6
RV1510	A-6
RV1511	B-6
RV1512	D-6
RV1513	B-6
RV1514	C-6
RV1515	B-4
RV1516	C-2
RV1517	B-2
RV1518	C-6
RV1521	A-6
RV1522	A-6
RV1601	B-6
RV1602	C-6

TP

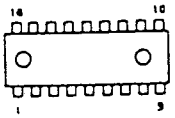
TP1501	D-1
TP1502	A-1
TP1503	G-3



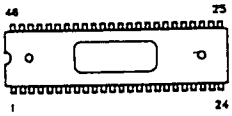
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

6-5. SEMICONDUCTORS

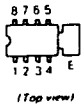
CXA1044BP



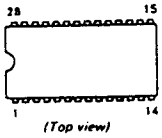
CXA1213S



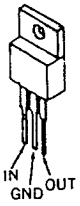
CXK1011P



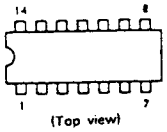
CX22030



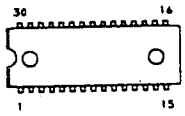
LM7812C7
RC7805FA



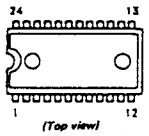
MC1495L



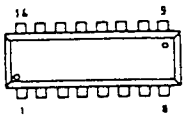
M52001SP



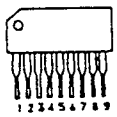
M54480P



NJM2234L

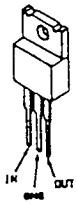


RC4558S

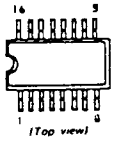


RC78L05A
RC78L12A

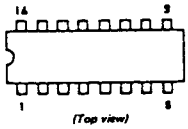
RC7809FA



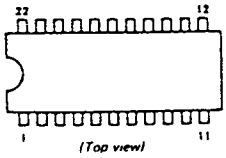
SN74LS157NS



SN74LS365ANS
TC4516BP
UPD6326C



μPC1377C



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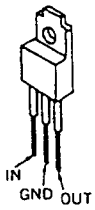

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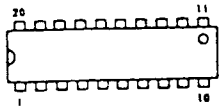
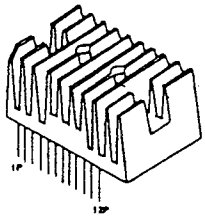
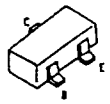


VPM03F



DTA114ES
DTA114TS
DTA124ES
DTA144ES
DTC114ES
DTC124ES
DTC144ES
XDC144ES

DTC114EK
DTC144EK
2SA1162-YG
2SC2712-YG



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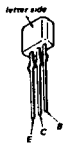
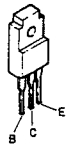
2SC2785-HFE



K91-044



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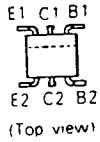
2SD774-44

2SB740-3

2SB940-P
2SD1264-P

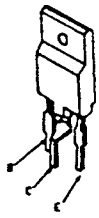
2SC2230A-Y1

2SC3064-F



2SC3318-S

2SD1887-CA



SECTION 7
EXPLODED VIEWS

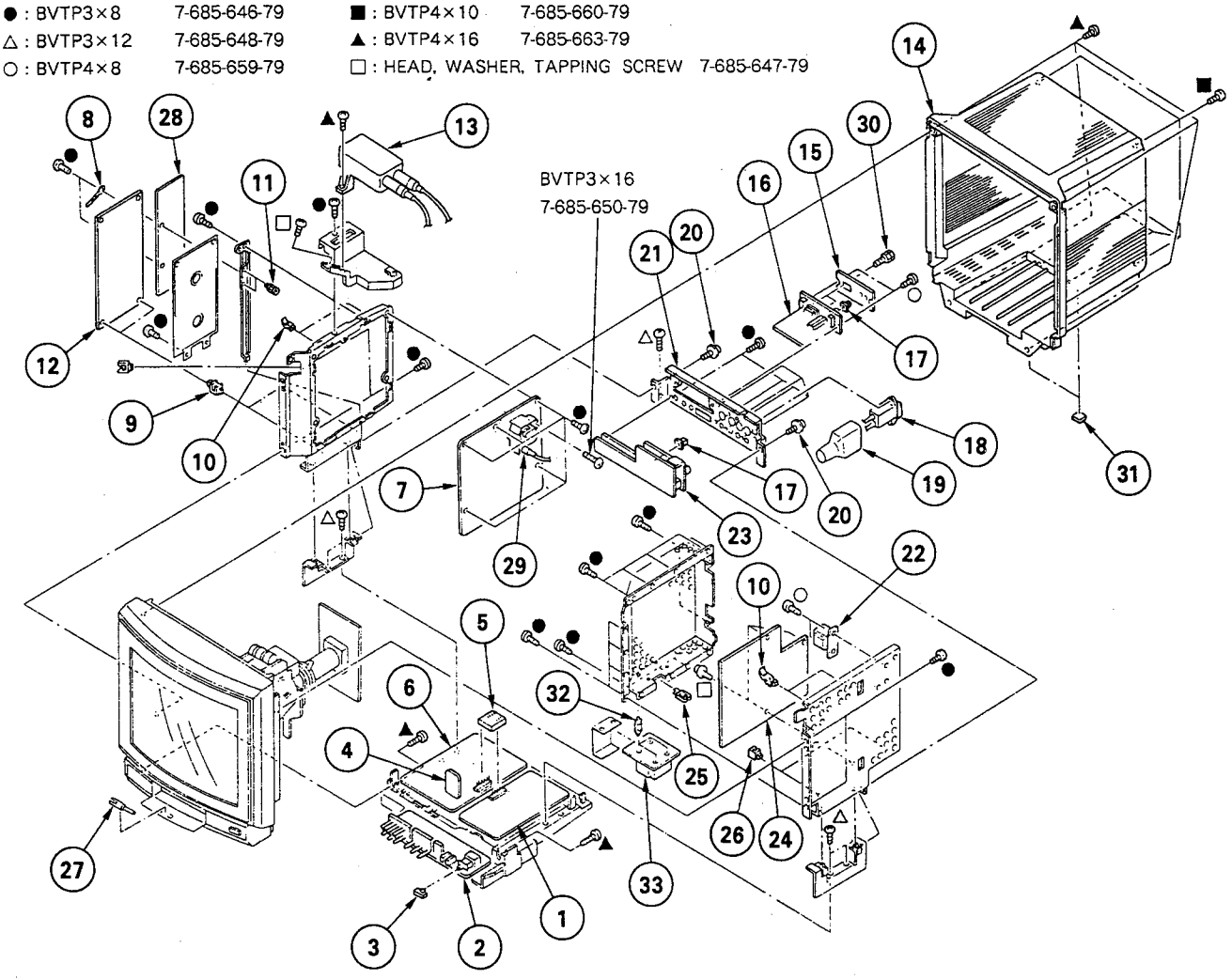
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

7-1. CHASSIS

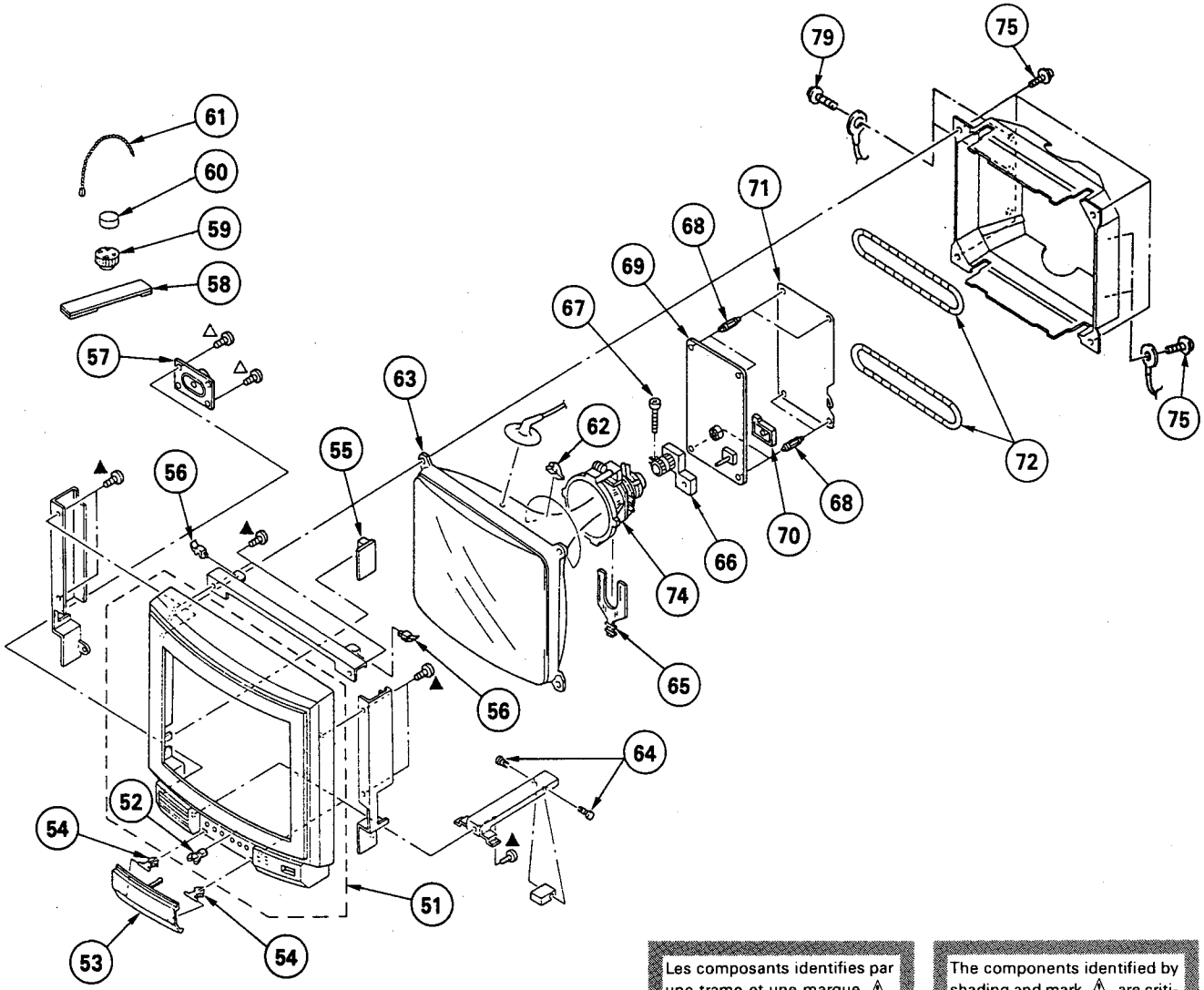
● : BVTP3×8 7-685-646-79
△ : BVTP3×12 7-685-648-79
○ : BVTP4×8 7-685-659-79
■ : BVTP4×10 7-685-660-79
▲ : BVTP4×16 7-685-663-79
□ : HEAD, WASHER, TAPPING SCREW 7-685-647-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*A-1135-703-A	B BOARD, COMPLETE	
2	*A-1375-103-A	H BOARD, COMPLETE	
3	4-397-106-11	BUTTON, POWER	
4	*1-633-816-21	AB BOARD	
5	*1-568-507-11	CONNECTOR, BRIDGE 15P	
6	*A-1296-896-C	A BOARD, COMPLETE	2,4,55
7	*A-1346-055-A	D1 BOARD, COMPLETE	
8	*3-701-822-00	HOLDER, WIRE	
9	*4-353-620-02	HINGE, PC BOARD	
10	*3-703-141-00	HOLDER, PCB	
11	*4-884-992-00	SUPPORT, PC	
12	*A-1335-024-A	D2 BOARD, COMPLETE	
13	⚠1-230-666-41	RESISTOR ASS'Y, HIGH-VOLTAGE	
14	4-397-115-11	COVER, REAR	
15	1-537-207-21	TERMINAL BOARD ASS'Y, U	
16	*A-1394-350-A	U1 BOARD, COMPLETE	
17	4-369-627-01	PUSH BUTTON	
18	⚠1-526-954-11	INLET, AC	
19	*4-601-466-00	COVER, 3P INLET	
20	4-382-854-01	SCREW (M3X8), P, SW (+)	
21	4-397-114-01	TERMINAL BOARD	
22	⚠1-450-678-11	TRANSFORMER, POWER	
23	*1-632-539-11	Q BOARD	
24	*A-1316-111-A	G BOARD, COMPLETE	
25	⚠4-343-123-02	RETAINER, AC CORD	
26	*3-701-903-11	HOLDER, PC BOARD	
27	4-029-223-01	DRIVER, SCREW	
28	*A-1341-431-B	D3 BOARD, COMPLETE	
29	1-439-390-11	TRANSFORMER ASS'Y, FLYBACK (NX-2100)	
30	4-031-973-01	LOCK, SCREW	
31	4-033-318-01	CUSHION, FOOT	
32	*3-682-419-11	HOLDER, P.C.B	
33	*1-633-888-11	G1 BOARD	

7-2. PICTURE TUBE

△ : BVTP3×12 7-685-648-79
▲ : BVTP4×16 7-685-663-79



Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4397-104-3	BEZEL ASS'Y	52
52	4-392-036-01	CATCHER, PUSH	
53	X-4397-103-4	DOOR ASS'Y	
54	3-703-035-11	SHAFT, DOOR	
55	*1-632-534-21	E BOARD	
56	*3-703-141-00	HOLDER, PCB	
57	1-544-252-11	SPEAKER	
58	X-4309-608-0	PERMALLOY ASS'Y, CONVERGENCE	
59	1-452-094-00	MAGNET, ROTATABLE DISK; 15MMφ	
60	1-452-032-00	MAGNET,DISC	
61	4-308-870-00	CLIP, LEAD WIRE	
62	3-703-961-01	SPACER, DY	
63	⚠8-738-259-05	PICTURE TUBE 14FGE (M34JNQ15X)	
64	4-812-134-00	RIVET NYLON, 3.5	
65	X-2105-485-1	PLATE ASS'Y, CORRECTION, TLH	
66	X-4392-701-1	HOLDER ASS'Y, B PC BOARD	67
67	*2-101-802-01	SCREW, FASTENING, SEPARATOR	
68	*3-682-419-01	HOLDER, P.C.B	
69	*A-1331-205-A	C BOARD, COMPLETE	
70	*4-392-704-01	COVER, H.STAT	
71	*4-397-123-01	PLATE, SHIELD, C	
72	⚠1-426-442-21	COIL, DEMAGNETIZATION	
73	4-307-249-00	SCREW (5), TAPPING	
74	⚠1-451-384-21	DEFLECTION YOKE (Y14FGC3)	
75	7-682-561-04	SCREW +BVTT 4×8 (S)	

SECTION 8
ELECTRICAL PARTS LIST

B

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

- The components identified by ▣ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- ✱ : Selected to yield optimum performance.
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1135-703-A	B BOARD, COMPLETE				
		**********				
	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
	*1-564-507-11	PLUG, CONNECTOR 4P				
	*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P				
	4-382-854-01	SCREW (M3X8), P, SW (+)				
		<CAPACITOR>				
C001	1-124-477-11	ELECT	47MF	20%	16V	
C002	1-124-477-11	ELECT	47MF	20%	16V	
C003	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C004	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C005	1-124-477-11	ELECT	47MF	20%	16V	
C007	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C008	1-124-477-11	ELECT	47MF	20%	16V	
C009	1-124-477-11	ELECT	47MF	20%	16V	
C011	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C012	1-124-477-11	ELECT	47MF	20%	16V	
C013	1-164-097-11	CERAMIC	0.022MF		50V	
C014	1-164-097-11	CERAMIC	0.022MF		50V	
C015	1-124-477-11	ELECT	47MF	20%	16V	
C016	1-124-477-11	ELECT	47MF	20%	16V	
C017	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C018	1-124-903-11	ELECT	1MF	20%	50V	
C019	1-164-097-11	CERAMIC	0.022MF		50V	
C020	1-164-083-11	CERAMIC	680PF	10%	50V	
C021	1-124-477-11	ELECT	47MF	20%	16V	
C022	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C023	1-124-477-11	ELECT	47MF	20%	16V	
C024	1-164-064-11	CERAMIC	56PF	5%	50V	
C025	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C026	1-124-907-11	ELECT	10MF	20%	50V	
C027	1-124-120-11	ELECT	220MF	20%	16V	
C028	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C029	1-136-169-00	FILM	0.22MF	5%	50V	
C030	1-124-477-11	ELECT	47MF	20%	16V	
C031	1-126-233-11	ELECT	22MF	20%	50V	
C032	1-126-101-11	ELECT	100MF	20%	16V	
C033	1-130-479-00	MYLAR	0.0047MF	10%	50V	
C034	1-102-816-00	CERAMIC	120PF	5%	50V	
C035	1-136-169-00	FILM	0.22MF	5%	50V	
C036	1-102-973-00	CERAMIC	100PF	5%	50V	
C037	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C038	1-124-477-11	ELECT	47MF	20%	16V	
C039	1-164-097-11	CERAMIC	0.022MF		50V	
C040	1-136-165-00	FILM	0.1MF	5%	50V	
C041	1-164-097-11	CERAMIC	0.022MF		50V	
C042	1-101-890-00	CERAMIC	75PF	5%	50V	
C043	1-136-169-00	FILM	0.22MF	5%	50V	
C044	1-136-165-00	FILM	0.1MF	5%	50V	
C045	1-102-959-00	CERAMIC	22PF	5%	50V	
C046	1-101-890-00	CERAMIC	75PF	5%	50V	
C047	1-136-169-00	FILM	0.22MF	5%	50V	
C048	1-136-169-00	FILM	0.22MF	5%	50V	
C049	1-102-961-00	CERAMIC	27PF	5%	50V	
C050	1-136-165-00	FILM	0.1MF	5%	50V	
C051	1-136-173-00	FILM	0.47MF	5%	50V	
C052	1-102-816-00	CERAMIC	120PF	5%	50V	
C053	1-164-085-11	CERAMIC	0.001MF	10%	50V	
C054	1-130-491-00	MYLAR	0.047MF	5%	50V	
C055	1-102-816-00	CERAMIC	120PF	5%	50V	
C056	1-136-167-00	FILM	0.15MF	5%	50V	
C057	1-130-487-00	MYLAR	0.022MF	5%	50V	
C058	1-124-903-11	ELECT	1MF	20%	50V	
C059	1-124-927-11	ELECT	4.7MF	20%	50V	
C060	1-124-477-11	ELECT	47MF	20%	16V	
C061	1-130-480-00	MYLAR	0.0056MF	10%	50V	
C062	1-136-165-00	FILM	0.1MF	5%	50V	
C063	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C064	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C065	1-126-101-11	ELECT	100MF	20%	16V	
C066	1-106-361-00	MYLAR	0.0056MF	10%	100V	
C067	1-164-097-11	CERAMIC	0.022MF		50V	
C068	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C075	1-124-477-11	ELECT	47MF	20%	16V	
C077	1-164-077-11	CERAMIC	220PF	10%	50V	
		<TRIMMER>				
CV358	1-141-245-00	CAP, TRIMMER				
CV443	1-141-245-00	CAP, TRIMMER				
		<DIODE>				
D001	8-719-911-19	DIODE 1SS119				
D002	8-719-911-19	DIODE 1SS119				
D003	8-719-911-19	DIODE 1SS119				
D004	8-719-911-19	DIODE 1SS119				
D005	8-719-911-19	DIODE 1SS119				
D006	8-719-911-19	DIODE 1SS119				
D007	8-719-911-19	DIODE 1SS119				
D008	8-719-911-19	DIODE 1SS119				
		<DELAY LINE>				
DL001	1-415-632-11	DELAY LINE, Y				
DL002	1-415-122-31	DELAY LINE, 1H (PAL)				
		<FILTER>				
FL001	1-236-640-11	MODULE, TRAP				

B

REF.NO.	PART NO.	DESCRIPTION				REMARK
FL003	1-466-162-31	BLOCK, COM FILTER (CFB-4)				
FL005	1-236-364-11	FILTER, BAND PASS				
		<IC>				
IC001	8-759-711-23	IC NJM2234L				
IC002	8-759-711-23	IC NJM2234L				
IC003	8-759-711-23	IC NJM2234L				
IC004	8-759-711-23	IC NJM2234L				
IC006	8-759-982-10	IC RC7809FA				
IC007	8-752-036-21	IC CXA1213S				
IC008	8-752-056-67	IC CXA1214P				
		<COIL>				
L002	1-410-506-11	INDUCTOR	5.6UH			
L003	1-408-411-00	INDUCTOR	15UH			
L004	1-408-411-00	INDUCTOR	15UH			
L005	1-407-496-00	INDUCTOR	2.2MMH			
L006	1-410-513-11	INDUCTOR	22UH			
L007	1-404-584-11	COIL				
L008	1-404-496-00	COIL				
L009	1-404-496-00	COIL				
L010	1-410-507-11	INDUCTOR	6.8UH			
		<TRANSISTOR>				
Q001	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q003	8-729-900-89	TRANSISTOR DTC144ES				
Q004	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q005	8-729-900-89	TRANSISTOR DTC144ES				
Q006	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q007	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q008	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q009	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q010	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q011	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q012	8-729-900-89	TRANSISTOR DTC144ES				
Q013	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q014	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q015	8-729-900-89	TRANSISTOR DTC144ES				
Q016	8-729-900-89	TRANSISTOR DTC144ES				
Q017	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q018	8-729-900-89	TRANSISTOR DTC144ES				
Q019	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q020	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q021	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q022	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q023	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q024	8-729-900-89	TRANSISTOR DTC144ES				
		<RESISTOR>				
R001	1-249-405-11	CARBON	100	5%	1/4W	
R002	1-249-417-11	CARBON	1K	5%	1/4W	
R003	1-249-417-11	CARBON	1K	5%	1/4W	
R004	1-249-399-11	CARBON	33	5%	1/4W	
R005	1-249-405-11	CARBON	100	5%	1/4W	
R006	1-249-409-11	CARBON	220	5%	1/4W	
R007	1-249-421-11	CARBON	2.2K	5%	1/4W	
R008	1-249-421-11	CARBON	2.2K	5%	1/4W	
R011	1-249-431-11	CARBON	15K	5%	1/4W	
R015	1-249-437-11	CARBON	47K	5%	1/4W	
R017	1-249-429-11	CARBON	10K	5%	1/4W	
R018	1-249-405-11	CARBON	100	5%	1/4W	
R019	1-249-417-11	CARBON	1K	5%	1/4W	
R020	1-249-431-11	CARBON	15K	5%	1/4W	
R021	1-249-431-11	CARBON	15K	5%	1/4W	
R022	1-249-435-11	CARBON	33K	5%	1/4W	
R023	1-249-427-11	CARBON	6.8K	5%	1/4W	
R024	1-249-430-11	CARBON	12K	5%	1/4W	
R025	1-249-408-11	CARBON	180	5%	1/4W	
R026	1-249-411-11	CARBON	330	5%	1/4W	
R027	1-249-433-11	CARBON	22K	5%	1/4W	
R028	1-249-435-11	CARBON	33K	5%	1/4W	
R029	1-249-419-11	CARBON	1.5K	5%	1/4W	
R030	1-249-411-11	CARBON	330	5%	1/4W	
R031	1-249-415-11	CARBON	680	5%	1/4W	
R032	1-249-411-11	CARBON	330	5%	1/4W	
R033	1-249-417-11	CARBON	1K	5%	1/4W	
R034	1-249-421-11	CARBON	2.2K	5%	1/4W	
R035	1-249-429-11	CARBON	10K	5%	1/4W	
R036	1-249-441-11	CARBON	100K	5%	1/4W	
R037	1-249-411-11	CARBON	330	5%	1/4W	
R038	1-249-417-11	CARBON	1K	5%	1/4W	
R039	1-249-416-11	CARBON	820	5%	1/4W	
R040	1-249-416-11	CARBON	820	5%	1/4W	
R041	1-249-415-11	CARBON	680	5%	1/4W	
R042	1-249-405-11	CARBON	100	5%	1/4W	
R043	1-249-435-11	CARBON	33K	5%	1/4W	
R044	1-249-415-11	CARBON	680	5%	1/4W	
R045	1-249-419-11	CARBON	1.5K	5%	1/4W	
R046	1-249-420-11	CARBON	1.8K	5%	1/4W	
R047	1-249-405-11	CARBON	100	5%	1/4W	
R048	1-249-408-11	CARBON	180	5%	1/4W	
R049	1-249-412-11	CARBON	390	5%	1/4W	
R050	1-249-413-11	CARBON	470	5%	1/4W	
R051	1-249-417-11	CARBON	1K	5%	1/4W	
R052	1-249-417-11	CARBON	1K	5%	1/4W	
R053	1-249-419-11	CARBON	1.5K	5%	1/4W	
R054	1-215-432-00	METAL	3K	1%	1/4W	
R055	1-249-437-11	CARBON	47K	5%	1/4W	
R056	1-249-410-11	CARBON	270	5%	1/4W	
R057	1-247-903-00	CARBON	1M	5%	1/4W	
R058	1-249-429-11	CARBON	10K	5%	1/4W	
R059	1-249-423-11	CARBON	3.3K	5%	1/4W	
R060	1-249-419-11	CARBON	1.5K	5%	1/4W	
R061	1-249-422-11	CARBON	2.7K	5%	1/4W	
R062	1-249-419-11	CARBON	1.5K	5%	1/4W	
R063	1-249-419-11	CARBON	1.5K	5%	1/4W	
R064	1-249-412-11	CARBON	390	5%	1/4W	
R065	1-249-412-11	CARBON	390	5%	1/4W	
R066	1-249-410-11	CARBON	270	5%	1/4W	
R067	1-249-408-11	CARBON	180	5%	1/4W	
R068	1-249-410-11	CARBON	270	5%	1/4W	
R069	1-249-421-11	CARBON	2.2K	5%	1/4W	
R070	1-249-425-11	CARBON	4.7K	5%	1/4W	
R071	1-249-413-11	CARBON	470	5%	1/4W	
R072	1-247-891-00	CARBON	330K	5%	1/4W	
R073	1-249-417-11	CARBON	1K	5%	1/4W	
R074	1-249-429-11	CARBON	10K	5%	1/4W	
R075	1-215-455-00	METAL	27K	1%	1/4W	
R076	1-249-409-11	CARBON	220	5%	1/4W	
R077	1-249-421-11	CARBON	2.2K	5%	1/4W	
R078	1-249-421-11	CARBON	2.2K	5%	1/4W	
R079	1-249-417-11	CARBON	1K	5%	1/4W	
R080	1-215-430-00	METAL	2.4K	1%	1/4W	
R081	1-249-425-11	CARBON	4.7K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R082	1-249-405-11	CARBON	100	5%	1/4W	
R083	1-249-409-11	CARBON	220	5%	1/4W	
R084	1-249-409-11	CARBON	220	5%	1/4W	
R085	1-249-416-11	CARBON	820	5%	1/4W	
R086	1-249-417-11	CARBON	1K	5%	1/4W	
R087	1-249-417-11	CARBON	1K	5%	1/4W	
R088	1-249-433-11	CARBON	22K	5%	1/4W	
R089	1-249-417-11	CARBON	1K	5%	1/4W	
R090	1-249-425-11	CARBON	4.7K	5%	1/4W	
R091	1-249-409-11	CARBON	220	5%	1/4W	
R092	1-249-408-11	CARBON	180	5%	1/4W	
R093	1-259-882-11	CARBON	3.3M	5%	1/4W	
R097	1-249-429-11	CARBON	10K	5%	1/4W	
R098	1-249-423-11	CARBON	3.3K	5%	1/4W	
R099	1-249-405-11	CARBON	100	5%	1/4W	
		<VARIABLE RESISTOR>				
RV001	1-228-996-00	RES, ADJ, CARBON 47K				
RV002	1-228-989-00	RES, ADJ, CARBON 470				
		<TRANSFORMER>				
T001	1-404-524-11	DAT				
		<CRYSTAL>				
X003	1-577-611-11	OSCILALTOR, CERAMIC				
X358	1-567-505-11	OSCILLATOR, CRYSTAL				
X443	1-567-504-11	OSCILLATOR, CRYSTAL				
**********						
	*1-632-539-11	Q BOARD *******				
	1-537-268-11	TERMINAL BOARD, INPUT/OUTPUT				
	1-537-269-11	TERMINAL BOARD, INPUT/OUTPUT				
	*1-564-522-11	PLUG, CONNECTOR 7P				
		<CAPACITOR>				
C3001	1-126-160-11	ELECT	1MF	20%	50V	
C3002	1-124-589-11	ELECT	47MF	20%	16V	
C3003	1-124-589-11	ELECT	47MF	20%	16V	
C3004	1-126-160-11	ELECT	1MF	20%	50V	
C3005	1-126-160-11	ELECT	1MF	20%	50V	
C3006	1-126-160-11	ELECT	1MF	20%	50V	
C3007	1-164-097-11	CERAMIC	0.022MF		50V	
C3008	1-124-589-11	ELECT	47MF	20%	16V	
C3009	1-124-589-11	ELECT	47MF	20%	16V	
		<COMPOSITION CIRCUIT BLOCK>				
CP3002	1-232-096-00	COMPOSITION CIRCUIT BLOCK				
		<DIODE>				
D3001	8-719-911-19	DIODE 1SS119				
D3002	8-719-108-12	DIODE RD9.1EW				
D3009	8-719-110-36	DIODE RD13ES-B2				
		<IC>				
IC3001	1-808-916-11	MODULE, BUFFER BUF-1				
IC3003	1-808-916-11	MODULE, BUFFER BUF-1				
IC3004	1-808-916-11	MODULE, BUFFER BUF-1				
		<TRANSISTOR>				
Q3001	8-729-904-34	TRANSISTOR DTA114TS				
Q3003	8-729-900-89	TRANSISTOR DTC144ES				
Q3004	8-729-900-89	TRANSISTOR DTC144ES				
Q3005	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q3006	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q3007	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R3001	1-247-104-00	CARBON	75	5%	1/4W	
R3002	1-249-409-11	CARBON	220	5%	1/4W	
R3003	1-249-405-11	CARBON	100	5%	1/4W	
R3004	1-249-417-11	CARBON	1K	5%	1/4W	
R3005	1-249-417-11	CARBON	1K	5%	1/4W	
R3006	1-247-104-00	CARBON	75	5%	1/4W	
R3008	1-247-104-00	CARBON	75	5%	1/4W	
R3010	1-249-429-11	CARBON	10K	5%	1/4W	
R3011	1-249-429-11	CARBON	10K	5%	1/4W	
R3012	1-249-429-11	CARBON	10K	5%	1/4W	
R3013	1-249-405-11	CARBON	100	5%	1/4W	
R3014	1-249-417-11	CARBON	1K	5%	1/4W	
R3015	1-249-405-11	CARBON	100	5%	1/4W	
R3016	1-249-409-11	CARBON	220	5%	1/4W	
R3017	1-249-417-11	CARBON	1K	5%	1/4W	
R3018	1-249-417-11	CARBON	1K	5%	1/4W	
R3020	1-249-405-11	CARBON	100	5%	1/4W	
R3021	1-249-409-11	CARBON	220	5%	1/4W	
R3022	1-249-409-11	CARBON	220	5%	1/4W	
R3023	1-249-417-11	CARBON	1K	5%	1/4W	
R3024	1-249-431-11	CARBON	15K	5%	1/4W	
R3025	1-249-433-11	CARBON	22K	5%	1/4W	
R3030	1-249-440-11	CARBON	82K	5%	1/4W	
R3031	1-249-440-11	CARBON	82K	5%	1/4W	
R3032	1-249-440-11	CARBON	82K	5%	1/4W	
R3033	1-249-440-11	CARBON	82K	5%	1/4W	
R3034	1-249-440-11	CARBON	82K	5%	1/4W	
R3035	1-249-440-11	CARBON	82K	5%	1/4W	
R3036	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3037	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3038	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3040	1-249-417-11	CARBON	1K	5%	1/4W	
R3041	1-247-887-00	CARBON	220K	5%	1/4W	
		<SWITCH>				
S3002	1-570-257-11	SWITCH, PUSH (1 KEY)				
S3003	1-571-640-21	SWITCH, SLIDE				
**********						
	*A-1296-896-C	A BOARD, COMPLETE ********** (INCLUDING AB,E,H BOARD)				
	*1-506-517-11	PLUG, CONNECTOR (PC BOARD) 5P				
	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
	*1-564-506-11	PLUG, CONNECTOR 3P				
	*1-564-509-11	PLUG, CONNECTOR 6P				
	*1-564-510-11	PLUG, CONNECTOR 7P				
	*1-564-511-11	PLUG, CONNECTOR 8P				
	*1-564-512-11	PLUG, CONNECTOR 9P				

A

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*1-564-513-11	PLUG, CONNECTOR 10P			
	*1-564-514-11	PLUG, CONNECTOR 11P			
	*1-564-515-11	PLUG, CONNECTOR 12P			
	*1-564-595-11	PLUG, CONNECTOR 14P			
	*1-568-371-11	PIN, CONNECTOR (PC BOARD) 15P			
	4-382-854-01	SCREW (M3X8), P, SW (+)			
		<CAPACITOR>			
C200	1-164-079-11	CERAMIC	330PF	10%	50V
C201	1-124-907-11	ELECT	10MF	20%	50V
C202	1-124-477-11	ELECT	47MF	20%	16V
C203	1-124-477-11	ELECT	47MF	20%	16V
C204	1-124-477-11	ELECT	47MF	20%	16V
C205	1-124-477-11	ELECT	47MF	20%	16V
C206	1-126-101-11	ELECT	100MF	20%	16V
C207	1-164-097-11	CERAMIC	0.022MF		50V
C208	1-164-087-11	CERAMIC	0.0015MF	10%	50V
C209	1-124-464-11	ELECT	0.22MF	20%	50V
C210	1-124-907-11	ELECT	10MF	20%	50V
C211	1-124-360-00	ELECT	1000MF	20%	16V
C212	1-124-907-11	ELECT	10MF	20%	50V
C213	1-164-097-11	CERAMIC	0.022MF		50V
C214	1-106-383-00	MYLAR	0.047MF	10%	100V
C215	1-124-557-11	ELECT	1000MF	20%	25V
C216	1-126-101-11	ELECT	100MF	20%	16V
C217	1-164-079-11	CERAMIC	330PF	10%	50V
C218	1-102-973-00	CERAMIC	100PF	5%	50V
C219	1-126-101-11	ELECT	100MF	20%	16V
C220	1-124-477-11	ELECT	47MF	20%	25V
C222	1-126-101-11	ELECT	100MF	20%	16V
C223	1-124-477-11	ELECT	47MF	20%	16V
C224	1-102-527-11	CERAMIC	82PF	5%	50V
C226	1-124-499-11	ELECT	1MF	20%	50V
C227	1-106-343-00	MYLAR	0.001MF	10%	100V
C228	1-164-097-11	CERAMIC	0.022MF		50V
C229	1-124-477-11	ELECT	47MF	20%	16V
C230	1-124-499-11	ELECT	1MF	20%	50V
C231	1-164-097-11	CERAMIC	0.022MF		50V
C232	1-124-360-00	ELECT	1000MF	20%	16V
C233	1-124-499-11	ELECT	1MF	20%	50V
C234	1-124-477-11	ELECT	47MF	20%	16V
C235	1-102-971-00	CERAMIC	82PF	5%	50V
C236	1-124-902-00	ELECT	0.47MF	20%	50V
C237	1-164-027-11	CERAMIC	22PF	5%	50V
C238	1-124-477-11	ELECT	47MF	20%	16V
C239	1-106-351-00	MYLAR	0.0022MF	10%	100V
C240	1-124-927-11	ELECT	4.7MF	20%	50V
C241	1-130-479-00	MYLAR	0.0047MF	5%	50V
C242	1-164-097-11	CERAMIC	0.022MF		50V
C243	1-136-165-00	FILM	0.1MF	5%	50V
C244	1-124-925-11	ELECT	2.2MF	20%	50V
C245	1-124-902-00	ELECT	0.47MF	20%	50V
C246	1-124-477-11	ELECT	47MF	20%	16V
C247	1-126-101-11	ELECT	100MF	20%	16V
C248	1-124-907-11	ELECT	10MF	20%	50V
C249	1-126-157-11	ELECT	10MF	20%	16V
C250	1-124-902-00	ELECT	0.47MF	20%	50V
C251	1-164-097-11	CERAMIC	0.022MF		50V
C252	1-124-907-11	ELECT	10MF	20%	50V
C253	1-124-902-00	ELECT	0.47MF	20%	50V
C254	1-106-367-00	MYLAR	0.01MF	10%	100V
C255	1-164-083-11	CERAMIC	680PF	10%	50V
C256	1-102-525-11	CERAMIC	68PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C257	1-124-477-11	ELECT	47MF	20%	16V
C258	1-124-903-11	ELECT	1MF	20%	50V
C259	1-136-153-00	MYLAR	0.01MF	10%	50V
C260	1-136-161-00	FILM	0.047MF	5%	50V
C261	1-124-477-11	ELECT	47MF	20%	16V
C262	1-124-499-11	ELECT	1MF	20%	50V
C263	1-136-155-00	FILM	0.015MF	5%	50V
C264	1-124-499-11	ELECT	1MF	20%	50V
C265	1-124-499-11	ELECT	1MF	20%	50V
C266	1-164-097-11	CERAMIC	0.022MF		50V
C267	1-124-120-11	ELECT	220MF	20%	16V
C268	1-164-097-11	CERAMIC	0.022MF		50V
C272	1-164-079-11	CERAMIC	330PF	10%	50V
C273	1-164-085-11	CERAMIC	0.001MF	10%	50V
C274	1-124-463-00	ELECT	0.1MF	20%	50V
C275	1-130-728-00	FILM	0.0022MF	5%	50V
C276	1-124-477-11	ELECT	47MF	20%	16V
C278	1-164-077-11	CERAMIC	220PF	10%	50V
C279	1-124-463-00	ELECT	0.1MF	20%	50V
C280	1-126-101-11	ELECT	100MF	20%	16V
C281	1-124-122-11	ELECT	100MF	20%	25V
C283	1-124-120-11	ELECT	220MF	20%	16V
C284	1-164-076-11	CERAMIC	180PF	10%	50V
C286	1-124-925-11	ELECT	2.2MF	20%	50V
C289	1-164-027-11	CERAMIC	22PF	5%	50V
C290	1-126-101-11	ELECT	100MF	20%	16V
C291	1-124-477-11	ELECT	47MF	20%	16V
C292	1-124-903-11	ELECT	1MF	20%	50V
		<DIODE>			
D200	8-719-936-56	DIODE DAN209S			
D202	8-719-110-36	DIODE RD13ES-B2			
D203	8-719-110-36	DIODE RD13ES-B2			
D204	8-719-936-56	DIODE DAN209S			
D205	8-719-911-19	DIODE 1SS119			
D206	8-719-911-19	DIODE 1SS119			
D207	8-719-110-36	DIODE RD13ES-B2			
D208	8-719-109-69	DIODE RD3.6ES-B2			
D209	8-719-911-19	DIODE 1SS119			
D210	8-719-911-19	DIODE 1SS119			
D211	8-719-936-56	DIODE DAN209S			
D212	8-719-911-19	DIODE 1SS119			
D213	8-719-016-42	DIODE MC932			
D214	8-719-911-19	DIODE 1SS119			
D215	8-719-911-19	DIODE 1SS119			
D217	8-719-911-19	DIODE 1SS119			
D218	8-719-911-19	DIODE 1SS119			
D219	8-719-911-19	DIODE 1SS119			
D220	8-719-911-19	DIODE 1SS119			
D221	8-719-911-19	DIODE 1SS119			
D222	8-719-911-19	DIODE 1SS119			
D223	8-719-911-19	DIODE 1SS119			
D224	8-719-109-93	DIODE RD6.2ES-B2			
D225	8-719-109-93	DIODE RD6.2ES-B2			
D298	8-719-911-19	DIODE 1SS119			
		<IC>			
IC201	1-808-916-11	MODULE, BUFFER BUF-1			
IC202	1-808-916-11	MODULE, BUFFER BUF-1			
IC203	1-808-916-11	MODULE, BUFFER BUF-1			
IC204	1-808-916-11	MODULE, BUFFER BUF-1			
IC205	8-759-509-16	IC XRU4053B			

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC206	8-759-420-04	IC AN5265	
IC207	1-808-917-12	MODULE, CGA CGA-1B	
IC208	8-759-982-21	IC RC78L05A	
IC209	8-759-800-81	IC LA7016	
IC210	8-759-509-16	IC XRU4053B	
IC211	8-759-902-21	IC SN74LS221N	
IC212	8-759-634-10	IC M52001SP	
IC213	8-759-509-16	IC XRU4053B	
IC214	8-759-420-58	IC AN5860	
IC215	8-759-902-21	IC SN74LS221N	
IC218	8-759-982-21	IC RC78L05A	
IC220	8-759-146-55	IC UPC2412HF	
		<COIL>	
L201	1-410-494-11	INDUCTOR 1MMH	
L202	1-408-414-00	INDUCTOR 27UH	
L203	1-410-510-11	INDUCTOR 12UH	
L204	1-410-507-11	INDUCTOR 6.8UH	
		<TRANSISTOR>	
Q200	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q202	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q203	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q204	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q205	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q206	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q207	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q208	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q209	8-729-900-36	TRANSISTOR DTC124ES	
Q210	8-729-900-89	TRANSISTOR DTC144ES	
Q211	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q212	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q213	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q214	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q215	8-729-140-97	TRANSISTOR 2SB734-34	
Q216	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q217	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q218	8-729-202-03	TRANSISTOR 2SD1408-Y	
Q219	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q220	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q221	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q222	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q223	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q224	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q225	8-729-115-30	TRANSISTOR 2SK105A-30	
Q226	8-729-900-89	TRANSISTOR DTC144ES	
Q227	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q228	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q229	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q230	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q231	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q232	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q233	8-729-900-89	TRANSISTOR DTC144ES	
Q234	8-729-900-89	TRANSISTOR DTC144ES	
Q235	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q236	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q237	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q238	8-729-900-89	TRANSISTOR DTC144ES	
Q239	8-729-900-89	TRANSISTOR DTC144ES	
Q240	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q241	8-729-900-89	TRANSISTOR DTC144ES	
Q242	8-729-900-89	TRANSISTOR DTC144ES	
Q243	8-729-140-97	TRANSISTOR 2SB734-34	
Q244	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q245	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q246	8-729-900-89	TRANSISTOR DTC144ES	
Q247	8-729-900-89	TRANSISTOR DTC144ES	
Q248	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q249	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q250	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q251	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q252	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q253	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q254	8-729-140-97	TRANSISTOR 2SB734-34	
Q255	8-729-900-89	TRANSISTOR DTC144ES	
Q256	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q261	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q262	8-729-900-89	TRANSISTOR DTC144ES	
Q263	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q264	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q265	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q268	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q269	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q270	8-729-900-89	TRANSISTOR DTC144ES	
Q271	8-729-900-89	TRANSISTOR DTC144ES	
Q272	8-729-900-89	TRANSISTOR DTC144ES	
Q273	8-729-900-89	TRANSISTOR DTC144ES	
Q274	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q275	8-729-900-89	TRANSISTOR DTC144ES	
Q276	8-729-900-89	TRANSISTOR DTC144ES	
		<RESISTOR>	
R200	1-247-704-11	CARBON 220 5% 1/4W	
R201	1-249-417-11	CARBON 1K 5% 1/4W	
R202	1-249-417-11	CARBON 1K 5% 1/4W	
R203	1-247-895-00	CARBON 470K 5% 1/4W	
R204	1-249-425-11	CARBON 4.7K 5% 1/4W	
R205	1-249-415-11	CARBON 680 5% 1/4W	
R206	1-249-382-11	CARBON 1.2 5% 1/4W	F
R207	1-247-725-11	CARBON 10K 5% 1/4W	
R208	1-249-441-11	CARBON 100K 5% 1/4W	
R209	1-249-441-11	CARBON 100K 5% 1/4W	
R210	1-249-401-11	CARBON 47 5% 1/4W	
R211	1-247-804-11	CARBON 75 5% 1/4W	
R212	1-247-804-11	CARBON 75 5% 1/4W	
R213	1-247-804-11	CARBON 75 5% 1/4W	
R214	1-247-804-11	CARBON 75 5% 1/4W	
R215	1-247-804-11	CARBON 75 5% 1/4W	
R216	1-249-421-11	CARBON 2.2K 5% 1/4W	
R217	1-249-417-11	CARBON 1K 5% 1/4W	
R218	1-247-717-11	CARBON 2.2K 5% 1/4W	
R219	1-247-717-11	CARBON 2.2K 5% 1/4W	
R220	1-247-717-11	CARBON 2.2K 5% 1/4W	
R221	1-247-717-11	CARBON 2.2K 5% 1/4W	
R222	1-249-421-11	CARBON 2.2K 5% 1/4W	
R223	1-249-437-11	CARBON 47K 5% 1/4W	
R224	1-249-421-11	CARBON 2.2K 5% 1/4W	
R225	1-249-417-11	CARBON 1K 5% 1/4W	
R226	1-249-401-11	CARBON 47 5% 1/4W	F
R227	1-249-401-11	CARBON 47 5% 1/4W	
R228	1-249-417-11	CARBON 1K 5% 1/4W	
R229	1-249-417-11	CARBON 1K 5% 1/4W	
R230	1-249-417-11	CARBON 1K 5% 1/4W	

A

REF.NO.	PART NO.	DESCRIPTION				REMARK
R231	1-249-417-11	CARBON	1K	5%	1/4W	
R232	1-249-401-11	CARBON	47	5%	1/4W	
R233	1-249-427-11	CARBON	6.8K	5%	1/4W	
R234	1-249-401-11	CARBON	47	5%	1/4W	
R235	1-249-401-11	CARBON	47	5%	1/4W	
R236	1-249-437-11	CARBON	47K	5%	1/4W	
R237	1-247-713-11	CARBON	1K	5%	1/4W	
R238	1-249-419-11	CARBON	1.5K	5%	1/4W	
R239	1-247-895-00	CARBON	470K	5%	1/4W	
R240	1-249-433-11	CARBON	22K	5%	1/4W	
R241	1-249-429-11	CARBON	10K	5%	1/4W	
R242	1-247-708-11	CARBON	470	5%	1/4W	
R243	1-249-405-11	CARBON	100	5%	1/4W	
R244	1-249-415-11	CARBON	680	5%	1/4W	
R245	1-249-429-11	CARBON	10K	5%	1/4W	
R246	1-247-804-11	CARBON	75	5%	1/4W	
R247	1-249-389-11	CARBON	4.7	5%	1/4W	
R248	1-249-397-11	CARBON	22	5%	1/4W	F
R249	1-249-411-11	CARBON	330	5%	1/4W	
R250	1-249-417-11	CARBON	1K	5%	1/4W	
R251	1-249-437-11	CARBON	47K	5%	1/4W	
R252	1-249-429-11	CARBON	10K	5%	1/4W	
R253	1-249-441-11	CARBON	100K	5%	1/4W	
R254	1-249-417-11	CARBON	1K	5%	1/4W	
R255	1-247-713-11	CARBON	1K	5%	1/4W	
R256	1-249-417-11	CARBON	1K	5%	1/4W	
R257	1-249-417-11	CARBON	1K	5%	1/4W	
R258	1-249-433-11	CARBON	22K	5%	1/4W	
R259	1-249-440-11	CARBON	82K	5%	1/4W	
R260	1-249-417-11	CARBON	1K	5%	1/4W	
R261	1-247-713-11	CARBON	1K	5%	1/4W	
R262	1-249-431-11	CARBON	15K	5%	1/4W	
R263	1-249-429-11	CARBON	10K	5%	1/4W	
R264	1-249-425-11	CARBON	4.7K	5%	1/4W	
R265	1-249-426-11	CARBON	5.6K	5%	1/4W	
R266	1-247-717-11	CARBON	2.2K	5%	1/4W	
R267	1-247-700-11	CARBON	100	5%	1/4W	
R268	1-247-713-11	CARBON	1K	5%	1/4W	
R269	1-249-409-11	CARBON	220	5%	1/4W	
R270	1-249-437-11	CARBON	47K	5%	1/4W	
R271	1-249-405-11	CARBON	100	5%	1/4W	
R272	1-249-425-11	CARBON	4.7K	5%	1/4W	
R273	1-249-401-11	CARBON	47	5%	1/4W	
R274	1-249-401-11	CARBON	47	5%	1/4W	
R275	1-249-401-11	CARBON	47	5%	1/4W	
R276	1-249-437-11	CARBON	47K	5%	1/4W	
R277	1-247-713-11	CARBON	1K	5%	1/4W	
R278	1-247-700-11	CARBON	100	5%	1/4W	
R279	1-247-713-11	CARBON	1K	5%	1/4W	
R280	1-249-417-11	CARBON	1K	5%	1/4W	
R281	1-249-421-11	CARBON	2.2K	5%	1/4W	
R282	1-247-700-11	CARBON	100	5%	1/4W	
R283	1-249-405-11	CARBON	100	5%	1/4W	
R284	1-249-419-11	CARBON	1.5K	5%	1/4W	
R285	1-249-429-11	CARBON	10K	5%	1/4W	
R286	1-247-713-11	CARBON	1K	5%	1/4W	
R287	1-249-411-11	CARBON	330	5%	1/4W	
R288	1-249-411-11	CARBON	330	5%	1/4W	
R289	1-249-416-11	CARBON	820	5%	1/4W	
R290	1-249-429-11	CARBON	10K	5%	1/4W	
R291	1-249-469-11	CARBON	100K	5%	1/4W	
R292	1-249-429-11	CARBON	10K	5%	1/4W	
R293	1-249-425-11	CARBON	4.7K	5%	1/4W	
R294	1-249-433-11	CARBON	22K	5%	1/4W	
R295	1-215-439-00	METAL	5.6K	1%	1/4W	
R296	1-215-453-00	METAL	22K	1%	1/4W	
R297	1-247-704-11	CARBON	220	5%	1/4W	
R298	1-249-433-11	CARBON	22K	5%	1/4W	
R299	1-249-417-11	CARBON	1K	5%	1/4W	
R300	1-249-409-11	CARBON	220	5%	1/4W	
R301	1-249-429-11	CARBON	10K	5%	1/4W	
R302	1-249-417-11	CARBON	1K	5%	1/4W	
R303	1-249-434-11	CARBON	27K	5%	1/4W	
R304	1-249-417-11	CARBON	1K	5%	1/4W	
R305	1-249-405-11	CARBON	100	5%	1/4W	
R306	1-247-713-11	CARBON	1K	5%	1/4W	
R307	1-247-704-11	CARBON	220	5%	1/4W	
R308	1-249-425-11	CARBON	4.7K	5%	1/4W	
R309	1-249-417-11	CARBON	1K	5%	1/4W	
R310	1-249-441-11	CARBON	100K	5%	1/4W	
R311	1-249-409-11	CARBON	220	5%	1/4W	
R312	1-249-409-11	CARBON	220	5%	1/4W	
R313	1-247-700-11	CARBON	100	5%	1/4W	
R314	1-249-409-11	CARBON	220	5%	1/4W	
R315	1-249-411-11	CARBON	330	5%	1/4W	
R316	1-249-417-11	CARBON	1K	5%	1/4W	
R317	1-249-405-11	CARBON	100	5%	1/4W	
R318	1-249-409-11	CARBON	220	5%	1/4W	
R319	1-249-425-11	CARBON	4.7K	5%	1/4W	
R320	1-249-429-11	CARBON	10K	5%	1/4W	
R321	1-249-429-11	CARBON	10K	5%	1/4W	
R322	1-247-704-11	CARBON	220	5%	1/4W	
R323	1-249-437-11	CARBON	47K	5%	1/4W	
R324	1-249-409-11	CARBON	220	5%	1/4W	
R325	1-217-482-00	FUSIBLE	12	5%	1W	F
R326	1-249-429-11	CARBON	10K	5%	1/4W	
R327	1-249-399-11	CARBON	33	5%	1/4W	
R328	1-249-409-11	CARBON	220	5%	1/4W	
R329	1-215-431-00	METAL	2.7K	1%	1/4W	
R330	1-215-455-00	METAL	27K	1%	1/4W	
R331	1-249-419-11	CARBON	1.5K	5%	1/4W	
R332	1-249-437-11	CARBON	47K	5%	1/4W	
R333	1-249-429-11	CARBON	10K	5%	1/4W	
R334	1-249-419-11	CARBON	1.5K	5%	1/4W	
R335	1-249-403-11	CARBON	68	5%	1/4W	
R336	1-249-465-11	CARBON	47K	5%	1/4W	
R337	1-215-906-11	METAL OXIDE	15	5%	3W	F
R338	1-249-423-11	CARBON	3.3K	5%	1/4W	
R339	1-249-441-11	CARBON	100K	5%	1/4W	
R340	1-247-714-11	CARBON	1.2K	5%	1/4W	F
R341	1-249-419-11	CARBON	1.5K	5%	1/4W	
R342	1-247-725-11	CARBON	10K	5%	1/4W	
R343	1-249-421-11	CARBON	2.2K	5%	1/4W	
R344	1-249-435-11	CARBON	33K	5%	1/4W	
R345	1-247-713-11	CARBON	1K	5%	1/4W	
R346	1-249-465-11	CARBON	47K	5%	1/4W	
R347	1-249-427-11	CARBON	6.8K	5%	1/4W	
R348	1-247-700-11	CARBON	100	5%	1/4W	
R349	1-247-700-11	CARBON	100	5%	1/4W	
R350	1-247-700-11	CARBON	100	5%	1/4W	
R351	1-215-469-00	METAL	100K	1%	1/4W	
R352	1-247-883-00	CARBON	150K	5%	1/4W	
R353	1-247-883-00	CARBON	150K	5%	1/4W	
R354	1-249-419-11	CARBON	1.5K	5%	1/4W	
R355	1-247-704-11	CARBON	220	5%	1/4W	
R356	1-247-704-11	CARBON	220	5%	1/4W	
R357	1-249-419-11	CARBON	1.5K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R358	1-249-409-11	CARBON	220	5%	1/4W	
R359	1-249-467-11	CARBON	68K	5%	1/4W	
R360	1-249-437-11	CARBON	47K	5%	1/4W	
R361	1-216-373-11	METAL OXIDE	2.2	5%	2W	F
R362	1-249-401-11	CARBON	47	5%	1/4W	
R363	1-249-401-11	CARBON	47	5%	1/4W	
R364	1-249-401-11	CARBON	47	5%	1/4W	
R365	1-249-419-11	CARBON	1.5K	5%	1/4W	
R366	1-215-422-00	METAL	1.1K	1%	1/4W	
R367	1-249-417-11	CARBON	1K	5%	1/4W	
R368	1-249-405-11	CARBON	100	5%	1/4W	
R369	1-249-436-11	CARBON	39K	5%	1/4W	
R370	1-249-433-11	CARBON	22K	5%	1/4W	
R371	1-249-414-11	CARBON	560	5%	1/4W	
R372	1-249-433-11	CARBON	22K	5%	1/4W	
R373	1-249-433-11	CARBON	22K	5%	1/4W	
R374	1-249-409-11	CARBON	220	5%	1/4W	
R375	1-247-704-11	CARBON	220	5%	1/4W	
R376	1-249-433-11	CARBON	22K	5%	1/4W	
R377	1-249-429-11	CARBON	10K	5%	1/4W	
R378	1-249-422-11	CARBON	2.7K	5%	1/4W	
R379	1-249-433-11	CARBON	22K	5%	1/4W	
R380	1-247-899-11	CARBON	680K	5%	1/4W	
R381	1-249-437-11	CARBON	47K	5%	1/4W	
R382	1-249-429-11	CARBON	10K	5%	1/4W	
R383	1-249-425-11	CARBON	4.7K	5%	1/4W	
R384	1-249-433-11	CARBON	22K	5%	1/4W	
R385	1-249-433-11	CARBON	22K	5%	1/4W	
R386	1-249-421-11	CARBON	2.2K	5%	1/4W	
R387	1-249-441-11	CARBON	100K	5%	1/4W	
R388	1-249-417-11	CARBON	1K	5%	1/4W	
R389	1-249-409-11	CARBON	220	5%	1/4W	
R391	1-249-405-11	CARBON	100	5%	1/4W	
R392	1-247-722-11	CARBON	5.6K	5%	1/4W	
R393	1-247-726-11	CARBON	33K	5%	1/4W	
R394	1-249-465-11	CARBON	47K	5%	1/4W	
R395	1-249-441-11	CARBON	100K	5%	1/4W	
R396	1-247-700-11	CARBON	100	5%	1/4W	
R397	1-247-700-11	CARBON	100	5%	1/4W	
R398	1-249-425-11	CARBON	4.7K	5%	1/4W	
R399	1-247-700-11	CARBON	100	5%	1/4W	
R400	1-249-435-11	CARBON	33K	5%	1/4W	
R401	1-249-417-11	CARBON	1K	5%	1/4W	
R405	1-249-417-11	CARBON	1K	5%	1/4W	
R406	1-249-418-11	CARBON	1.2K	5%	1/4W	
R407	1-249-417-11	CARBON	1K	5%	1/4W	
R416	1-249-417-11	CARBON	1K	5%	1/4W	
R417	1-247-891-00	CARBON	330K	5%	1/4W	
R420	1-215-404-00	METAL	200	1%	1/4W	
R421	1-249-421-11	CARBON	2.2K	5%	1/4W	
R422	1-249-409-11	CARBON	220	5%	1/4W	

<VARIABLE RESISTOR>

RV201	1-228-993-00	RES, ADJ, METAL GLAZE 4.7K	
RV203	1-230-504-11	RES, ADJ, CARBON 220	
RV204	1-230-504-11	RES, ADJ, CARBON 220	

<THERMISTOR>

TH201	1-800-199-00	THERMISTOR	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
	*1-633-816-21	AB BOARD				
		********				
	*1-564-505-11	PLUG, CONNECTOR 2P				
	*1-565-481-11	CONNECTOR, BOARD TO BOARD 5P				

<CAPACITOR>

C3000	1-126-101-11	ELECT	100MF	20%	16V
C3003	1-102-973-00	CERAMIC	100PF	5%	50V
C3004	1-136-169-00	FILM	0.22MF	5%	50V
C3005	1-136-161-00	FILM	0.047MF	5%	50V
C3008	1-124-120-11	ELECT	220MF	20%	16V
C3009	1-101-884-00	CERAMIC	56PF	5%	50V
C3011	1-124-477-11	ELECT	47MF	20%	16V
C3012	1-101-005-00	CERAMIC	0.022MF		50V
C3013	1-136-173-00	FILM	0.47MF	5%	50V
C3015	1-136-173-00	FILM	0.47MF	5%	50V

<TRANSISTOR>

Q3001	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q3002	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q3003	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q3004	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q3005	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q3006	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q3007	8-729-119-78	TRANSISTOR 2SC2785-HFE

<RESISTOR>

R3001	1-249-405-11	CARBON	100	5%	1/4W
R3002	1-249-421-11	CARBON	2.2K	5%	1/4W
R3003	1-249-409-11	CARBON	220	5%	1/4W
R3004	1-249-421-11	CARBON	2.2K	5%	1/4W
R3005	1-249-441-11	CARBON	100K	5%	1/4W
R3006	1-249-437-11	CARBON	47K	5%	1/4W
R3007	1-249-423-11	CARBON	3.3K	5%	1/4W
R3008	1-249-421-11	CARBON	2.2K	5%	1/4W
R3009	1-249-421-11	CARBON	2.2K	5%	1/4W
R3010	1-249-417-11	CARBON	1K	5%	1/4W
R3011	1-249-437-11	CARBON	47K	5%	1/4W
R3012	1-247-903-00	CARBON	1M	5%	1/4W
R3013	1-249-429-11	CARBON	10K	5%	1/4W
R3014	1-249-409-11	CARBON	220	5%	1/4W
R3015	1-249-425-11	CARBON	4.7K	5%	1/4W
R3016	1-249-405-11	CARBON	100	5%	1/4W
R3020	1-249-405-11	CARBON	100	5%	1/4W
R3021	1-247-895-00	CARBON	470K	5%	1/4W
R3022	1-249-421-11	CARBON	2.2K	5%	1/4W

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	*1-632-534-21	E BOARD	
		*******	
	*1-564-506-11	PLUG, CONNECTOR 3P	

<JACK>

J4001	1-563-933-11	JACK, MINIATURE (DIA. 3.5)	
J4002	1-563-933-11	JACK, MINIATURE (DIA. 3.5)	

<RESISTOR>

R4001	1-247-743-11	CARBON	220	5%	1/2W

E H

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R4002	1-247-743-11	CARBON	220	5%	1/2W	
**********						
	*A-1375-103-A	H BOARD, COMPLETE				
		**********				
	*1-564-506-11	PLUG, CONNECTOR 3P				
	1-568-106-11	PIN, CONNECTOR 4P				
⚠	*4-397-103-01	HOLDER, AC SWITCH				
		<CAPACITOR>				
C1001	1-124-907-11	ELECT	10MF	20%	50V	
C1002	1-164-070-11	CERAMIC	100PF	5%	50V	
C1003	1-164-070-11	CERAMIC	100PF	5%	50V	
C1004	1-164-097-11	CERAMIC	0.022MF		50V	
C1005	1-164-097-11	CERAMIC	0.022MF		50V	
C1006	1-124-477-11	ELECT	47MF	20%	16V	
C1007	1-164-097-11	CERAMIC	0.022MF		50V	
C1008	1-164-097-11	CERAMIC	0.022MF		50V	
C1009	1-164-097-11	CERAMIC	0.022MF		50V	
C1010	1-124-477-11	ELECT	47MF	20%	16V	
C1011	1-124-903-11	ELECT	1MF	20%	50V	
C1012	1-124-903-11	ELECT	1MF	20%	50V	
C1013	1-126-233-11	ELECT	22MF	20%	50V	
		<DIODE>				
D1000	8-719-109-89	DIODE RD5.6ES-B2				
D1001	8-719-933-28	DIODE DAP209S				
D1002	8-719-921-42	DIODE MTZJ-5.1A				
D1003	8-719-119-97	DIODE RD3.6ES-L1				
D1005	8-719-936-56	DIODE DAN209S				
D1006	8-719-911-19	DIODE 1SS119				
D1007	8-719-936-56	DIODE DAN209S				
D1008	8-719-921-86	DIODE MTZJ-13				
D1009	8-719-911-19	DIODE 1SS119				
D1010	8-719-109-89	DIODE RD5.6ES-B2				
D1101	1-808-949-11	LED UNIT (LEDU-13)				
D1102	1-808-918-11	LED UNIT (LEDU-9)				
		<IC>				
IC1001	8-759-143-81	IC UPD7564CS-094				
IC1002	8-752-330-59	IC CXK1011P				
IC1003	8-759-982-21	IC RC78L05A				
IC1004	8-759-102-28	IC UPD6326C				
		<COIL>				
L1001	1-410-521-11	INDUCTOR	100UH			
L1002	1-408-429-00	INDUCTOR	470UH			
		<TRANSISTOR>				
Q1001	8-729-900-89	TRANSISTOR DTC144ES				
Q1002	8-729-900-89	TRANSISTOR DTC144ES				
Q1003	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1004	8-729-900-89	TRANSISTOR DTC144ES				
Q1005	8-729-900-89	TRANSISTOR DTC144ES				
Q1006	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1007	8-729-900-89	TRANSISTOR DTC144ES				
Q1008	8-729-900-65	TRANSISTOR DTA144ES				
Q1013	8-729-900-89	TRANSISTOR DTC144ES				
Q1014	8-729-900-65	TRANSISTOR DTA144ES				
Q1015	8-729-900-36	TRANSISTOR DTC124ES				
Q1019	8-729-900-80	TRANSISTOR DTC114ES				
Q1021	8-729-900-89	TRANSISTOR DTC144ES				
Q1022	8-729-900-89	TRANSISTOR DTC144ES				
Q1023	8-729-900-89	TRANSISTOR DTC144ES				
		<RESISTOR>				
R1001	1-249-414-11	CARBON	560	5%	1/4W	
R1002	1-249-414-11	CARBON	560	5%	1/4W	
R1003	1-247-704-11	CARBON	220	5%	1/4W	
R1004	1-249-414-11	CARBON	560	5%	1/4W	
R1005	1-249-414-11	CARBON	560	5%	1/4W	
R1006	1-247-713-11	CARBON	1K	5%	1/4W	
R1007	1-249-405-11	CARBON	100	5%	1/4W	
R1008	1-249-429-11	CARBON	10K	5%	1/4W	
R1009	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1010	1-249-441-11	CARBON	100K	5%	1/4W	
R1011	1-249-417-11	CARBON	1K	5%	1/4W	
R1012	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1013	1-249-417-11	CARBON	1K	5%	1/4W	
R1014	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1015	1-249-417-11	CARBON	1K	5%	1/4W	
R1016	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1017	1-249-469-11	CARBON	100K	5%	1/4W	
R1018	1-249-417-11	CARBON	1K	5%	1/4W	
R1019	1-249-433-11	CARBON	22K	5%	1/4W	
R1020	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1021	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1022	1-249-433-11	CARBON	22K	5%	1/4W	
R1023	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1024	1-249-414-11	CARBON	560	5%	1/4W	
R1025	1-249-417-11	CARBON	1K	5%	1/4W	
R1026	1-247-713-11	CARBON	1K	5%	1/4W	
R1030	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1031	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1032	1-249-433-11	CARBON	22K	5%	1/4W	
R1033	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1034	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1035	1-249-417-11	CARBON	1K	5%	1/4W	
R1036	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1037	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1038	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1039	1-249-409-11	CARBON	220	5%	1/4W	
R1040	1-249-409-11	CARBON	220	5%	1/4W	
R1041	1-249-417-11	CARBON	1K	5%	1/4W	
R1042	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1045	1-249-406-11	CARBON	120	5%	1/4W	
R1049	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1050	1-249-440-11	CARBON	82K	5%	1/4W	
R1051	1-249-417-11	CARBON	1K	5%	1/4W	
R1054	1-249-429-11	CARBON	10K	5%	1/4W	
R1055	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1056	1-249-417-11	CARBON	1K	5%	1/4W	
R1060	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1070	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1071	1-249-433-11	CARBON	22K	5%	1/4W	
R1072	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1073	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1074	1-249-417-11	CARBON	1K	5%	1/4W	
R1099	1-249-417-11	CARBON	1K	5%	1/4W	
		<VARIABLE RESISTOR>				

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

H G1 G

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV1001	1-572-190-11	SWITCH BLOCK	
RV1002	1-238-945-11	VOLUME BLOCK	
RV1003	1-238-946-11	VOLUME BLOCK	
		<SWITCH>	
S1001⚠	1-554-966-12	SWITCH, PUSH (AC POWER)(1 KEY)	
		<CRYSTAL>	
X1001	1-577-163-11	VIBLATOR, CERAMIC	
		**********	
	*1-633-888-11	G1 BOARD	
		********	
	*1-564-321-00	PIN, CONNECTOR 2P	
	*4-341-751-01	EYELET EY33-EY36, EY67, EY68	
	*4-341-752-01	EYELET EY39-EY42	
		<CAPACITOR>	
C991 ⚠	1-136-346-11	FILM 0.22MF 20% 125V	
		<TRANSFORMER>	
T991 ⚠	1-424-389-11	TRANSFORMER, LINE FILTER	
		**********	
	*A-1316-111-A	G BOARD, COMPLETE	
		**********	
	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
	1-533-189-11	HOLDER, FUSE	
	1-560-435-00	HORIZONTAL PIN ASSY 2P	
	*1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P	
	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
	*1-564-321-00	PIN, CONNECTOR 2P	
	*1-564-518-11	PLUG, CONNECTOR 3P	
	*1-564-520-11	PLUG, CONNECTOR 5P	
	*1-564-675-11	PIN, CONNECTOR 8P	
	*1-565-395-11	PIN, CONNECTOR 3P	
	1-568-106-11	PIN, CONNECTOR 4P	
	3-704-359-01	SCREW (M3X10), SW (+) P	
	*4-341-751-01	EYELET EY1-EY15,EY18,EY19, EY21,EY24-EY29,EY45,EY46, EY51-EY66,EY69-EY76,EY79	
	*4-341-752-01	EYELET EY30-EY32,EY37,EY38, EY47-EY50	
	4-363-414-00	SPACER, MICA	
	*4-368-683-01	SPRING	
		<CAPACITOR>	
C901 ⚠	1-161-742-12	CERAMIC 0.0022MF 20% 400V	
C902 ⚠	1-136-346-11	FILM 0.22MF 20% 125V	
C903 ⚠	1-136-346-11	FILM 0.22MF 20% 125V	
C904 ⚠	1-161-964-61	CERAMIC 0.0047MF 250V	
C905 ⚠	1-161-742-12	CERAMIC 0.0022MF 20% 400V	
C906 ⚠	1-161-964-61	CERAMIC 0.0047MF 250V	
C907	1-125-457-11	ELECT(BLOCK) 560MF 20% 200V	
C908	1-125-457-11	ELECT(BLOCK) 560MF 20% 200V	
C909	1-102-050-00	CERAMIC 0.01MF 99% 500V	
C910	1-102-050-00	CERAMIC 0.01MF 99% 500V	
C911	1-162-115-00	CERAMIC 330PF 10% 2KV	
C912	1-136-060-00	FILM 0.047MF 5% 400V	
C913	1-136-060-00	FILM 0.047MF 5% 400V	
C914	1-162-115-00	CERAMIC 330PF 10% 2KV	
C915	1-162-115-00	CERAMIC 330PF 10% 2KV	
C916	1-162-115-00	CERAMIC 330PF 10% 2KV	
C917	1-136-086-00	FILM 0.017MF 3% 2KV	
C918	1-124-126-00	ELECT 47MF 20% 16V	
C919	1-124-126-00	ELECT 47MF 20% 16V	
C920	1-136-079-00	FILM 0.01MF 3% 2KV	
C921	1-137-496-11	FILM 0.039MF 5% 400V	
C922	1-124-628-11	ELECT 220MF 20% 100V	
C923	1-124-628-11	ELECT 220MF 20% 100V	
C924	1-128-462-11	ELECT 33MF 160V	
C925	1-124-126-00	ELECT 47MF 20% 16V	
C926	1-126-104-11	ELECT 470MF 20% 25V	
C927	1-124-510-11	ELECT 220MF 20% 35V	
C928	1-123-875-11	ELECT 10MF 20% 50V	
C929	1-124-126-00	ELECT 47MF 20% 16V	
C930	1-162-116-00	CERAMIC 680PF 10% 2KV	
C931	1-124-126-00	ELECT 47MF 20% 25V	
C932	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C933	1-126-233-11	ELECT 22MF 20% 50V	
C934	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C935	1-126-104-11	ELECT 470MF 20% 35V	
C936	1-126-101-11	ELECT 100MF 20% 16V	
C937	1-123-935-00	ELECT 33MF 20% 160V	
C939	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
C943 ⚠	1-136-346-11	FILM 0.22MF 20% 125V	
C944	1-126-337-11	ELECT 47MF 20% 35V	
C945	1-124-798-11	ELECT 1MF 20% 160V	
C946	1-124-798-11	ELECT 1MF 20% 160V	
C947	1-124-126-00	ELECT 47MF 20% 25V	
C948	1-162-116-00	CERAMIC 680PF 10% 2KV	
C949	1-124-126-00	ELECT 47MF 20% 25V	
		<DIODE>	
D901	8-719-946-90	DIODE KBU4JL-6088	
D902	8-719-301-18	DIODE RM2CS	
D903	8-719-971-20	DIODE ERC38-06	
D904	8-719-971-20	DIODE ERC38-06	
D905	8-719-301-18	DIODE RM2CS	
D906	8-719-971-20	DIODE ERC38-06	
D907	8-719-971-20	DIODE ERC38-06	
D908	8-719-300-33	DIODE RU-3AM	
D909	8-719-500-25	DIODE D5KC20RH	
D910	8-719-981-00	DIODE ERC81-004	
D911	8-719-300-33	DIODE RU-3AM	
D912	8-719-300-33	DIODE RU-3AM	
D913	8-719-988-11	DIODE FE3D	
D914	8-719-988-11	DIODE FE3D	
D915	8-719-988-11	DIODE FE3D	
D916	8-719-981-00	DIODE ERC81-004	
D917	8-719-981-00	DIODE ERC81-004	
D918	8-719-981-00	DIODE ERC81-004	
D919	8-719-981-00	DIODE ERC81-004	
D920	8-719-988-11	DIODE FE3D	
D921	8-719-913-64	THYRISTOR CSM2B4A10	
D922	8-719-911-55	DIODE U05G	
D923	8-719-981-00	DIODE ERC81-004	
D924	8-719-300-33	DIODE RU-3AM	
D925	8-719-109-75	DIODE RD4.3ESB2	

Les composants identifies par une trame et une marque ⚠

The components identified by shading and mark ⚠ are criti-

REF.NO.	PART NO.	DESCRIPTION			REMARK
C706	1-164-097-11	CERAMIC	0.022MF		50V
C707	1-124-910-11	ELECT	47MF	20%	50V
C708	1-164-070-11	CERAMIC	100PF	5%	50V
C709	1-164-070-11	CERAMIC	100PF	5%	50V
C710	1-164-070-11	CERAMIC	100PF	5%	50V
C711	1-123-948-00	ELECT	22MF	20%	250V
C712	1-106-391-12	MYLAR	0.1MF	10%	200V
C713	1-106-391-12	MYLAR	0.1MF	10%	200V
C714	1-106-391-12	MYLAR	0.1MF	10%	200V
C715	1-124-667-11	ELECT	10MF	20%	100V
C716	1-124-667-11	ELECT	10MF	20%	100V
C717	1-124-667-11	ELECT	10MF	20%	100V
C718	1-124-798-11	ELECT	1MF	20%	160V
C719	1-124-798-11	ELECT	1MF	20%	160V
C720	1-124-798-11	ELECT	1MF	20%	160V
C721	1-162-114-00	CERAMIC	0.0047MF		2KV
C722	1-123-024-21	ELECT	33MF		160V
C723	1-162-114-00	CERAMIC	0.0047MF		2KV
C726	1-164-089-11	CERAMIC	0.0022MF		50V
C727	1-106-395-00	MYLAR	0.15MF	10%	200V
C729	1-124-122-11	ELECT	100MF	20%	25V
C730	1-162-116-00	CERAMIC	680PF	10%	2KV
		<COMPOSITION CIRCUIT BLOCK>			
CP702	1-232-096-00	COMPOSITION CIRCUIT BLOCK			
		<DIODE>			
D701	8-719-901-83	DIODE 1SS83			
D702	8-719-901-83	DIODE 1SS83			
D703	8-719-901-83	DIODE 1SS83			
D704	8-719-901-83	DIODE 1SS83			
D705	8-719-901-83	DIODE 1SS83			
D706	8-719-901-83	DIODE 1SS83			
D707	8-719-901-83	DIODE 1SS83			
D708	8-719-901-83	DIODE 1SS83			
D709	8-719-901-83	DIODE 1SS83			
D712	8-719-110-06	DIODE RD8.2ES-B1			
D713	8-719-901-83	DIODE 1SS83			
		<IC>			
IC701	8-752-039-40	IC CXA1044BP			
IC702	8-749-921-15	IC VPM03F			
		<COIL>			
L701	1-410-459-11	INDUCTOR	1.2UH		
L702	1-410-459-11	INDUCTOR	1.2UH		
L703	1-410-459-11	INDUCTOR	1.2UH		
L704	1-410-675-31	INDUCTOR	120UH		
L706	1-408-420-00	INDUCTOR	82UH		
		<RESISTOR>			
R700	1-247-887-00	CARBON	220K	5%	1/4W
R701	1-249-437-11	CARBON	47K	5%	1/4W
R702	1-249-437-11	CARBON	47K	5%	1/4W
R703	1-249-417-11	CARBON	1K	5%	1/4W
R704	1-249-405-11	CARBON	100	5%	1/4W
R705	1-249-413-11	CARBON	470	5%	1/4W
R706	1-249-417-11	CARBON	1K	5%	1/4W
R707	1-249-401-11	CARBON	47	5%	1/4W

REF.NO.	PART NO.	DESCRIPTION				REMARK
R708	1-249-401-11	CARBON	47	5%	1/4W	
R709	1-249-401-11	CARBON	47	5%	1/4W	
R710	1-249-405-11	CARBON	100	5%	1/4W	
R711	1-249-413-11	CARBON	470	5%	1/4W	
R712	1-249-413-11	CARBON	470	5%	1/4W	
R713	1-249-413-11	CARBON	470	5%	1/4W	
R714	1-249-402-11	CARBON	56	5%	1/4W	
R715	1-249-402-11	CARBON	56	5%	1/4W	
R716	1-249-402-11	CARBON	56	5%	1/4W	
R717	1-247-903-00	CARBON	1M	5%	1/4W	
R718	1-247-903-00	CARBON	1M	5%	1/4W	
R719	1-247-903-00	CARBON	1M	5%	1/4W	
R720	1-249-417-11	CARBON	1K	5%	1/4W	
R721	1-249-417-11	CARBON	1K	5%	1/4W	
R722	1-249-417-11	CARBON	1K	5%	1/4W	
R723	1-215-872-11	METAL OXIDE	3.3K	5%	1W	F
R724	1-215-872-11	METAL OXIDE	3.3K	5%	1W	F
R725	1-215-872-11	METAL OXIDE	3.3K	5%	1W	F
R729	1-249-417-11	CARBON	1K	5%	1/4W	
R730	1-249-417-11	CARBON	1K	5%	1/4W	
R731	1-249-417-11	CARBON	1K	5%	1/4W	
R732	1-247-695-11	SOLID	22	5%	1/4W	
R733	1-247-695-11	SOLID	22	5%	1/4W	
R734	1-247-695-11	SOLID	22	5%	1/4W	
R735	1-202-838-00	SOLID	100K	10%	1/2W	
R736	1-249-401-11	CARBON	47	5%	1/4W	
R737	1-249-401-11	CARBON	47	5%	1/4W	
R738	1-249-401-11	CARBON	47	5%	1/4W	
R739	1-249-434-11	CARBON	27K	5%	1/4W	
R740	1-249-433-11	CARBON	22K	5%	1/4W	
R741	1-249-429-11	CARBON	10K	5%	1/4W	
R742	1-249-417-11	CARBON	1K	5%	1/4W	
R743	1-249-413-11	CARBON	470	5%	1/4W	
R744	1-249-429-11	CARBON	10K	5%	1/4W	
R745	1-249-429-11	CARBON	10K	5%	1/4W	
R746	1-249-429-11	CARBON	10K	5%	1/4W	
		<VARIABLE RESISTOR>				
RV700	1-228-996-00	RES, ADJ, CARBON 47K				
RV701	1-228-993-00	RES, ADJ, CARBON 4.7K				
RV702	1-230-504-11	RES, ADJ, CARBON 220				
RV703	1-230-504-11	RES, ADJ, CARBON 220				
RV704	1-230-504-11	RES, ADJ, CARBON 220				
RV705	1-224-252-XX	RES, ADJ, METAL GLAZE 10K				
RV706	1-224-252-XX	RES, ADJ, METAL GLAZE 10K				
RV707	1-224-252-XX	RES, ADJ, METAL GLAZE 10K				
RV708	1-230-798-11	RES, ADJ, METAL GLAZE 90M				
RV709	1-228-993-00	RES, ADJ, CARBON 4.7K				
RV710	1-228-990-00	RES, ADJ, CARBON 1K				
RV711	1-228-990-00	RES, ADJ, CARBON 1K				

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	*A-1335-024-A	D2 BOARD, COMPLETE
		**********
	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
	*1-564-506-11	PLUG, CONNECTOR 3P
	1-564-507-11	PLUG, CONNECTOR 4P
	*1-564-508-11	PLUG, CONNECTOR 5P
	*1-564-511-11	PLUG, CONNECTOR 8P
	*1-564-512-11	PLUG, CONNECTOR 9P
	*1-564-516-11	PLUG, CONNECTOR 13P
	*1-564-595-11	PLUG, CONNECTOR 14P

D2

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*3-738-015-01	COVER, (DIA. 6) CARBON VR			
		<CAPACITOR>			
C1500	1-126-103-11	ELECT	470MF	20%	16V
C1502	1-124-907-11	ELECT	10MF	20%	50V
C1503	1-126-103-11	ELECT	470MF	20%	16V
C1504	1-124-477-11	ELECT	47MF	20%	16V
C1505	1-164-070-11	CERAMIC	100PF	5%	50V
C1506	1-124-907-11	ELECT	10MF	20%	50V
C1507	1-124-477-11	ELECT	47MF	20%	16V
C1508	1-124-907-11	ELECT	10MF	20%	50V
C1509	1-164-077-11	CERAMIC	220PF	10%	50V
C1510	1-164-097-11	CERAMIC	0.022MF		50V
C1511	1-164-097-11	CERAMIC	0.022MF		50V
C1512	1-124-903-11	ELECT	1MF	20%	50V
C1514	1-136-173-00	FILM	0.47MF	5%	50V
C1516	1-124-907-11	ELECT	10MF	20%	50V
C1519	1-124-927-11	ELECT	4.7MF	20%	50V
C1520	1-164-081-11	CERAMIC	470PF	10%	50V
C1521	1-164-097-11	CERAMIC	0.022MF		50V
C1522	1-124-463-00	ELECT	0.1MF	20%	50V
C1523	1-124-477-11	ELECT	47MF	20%	16V
C1524	1-164-097-11	CERAMIC	0.022MF		50V
C1525	1-106-369-00	MYLAR	0.012MF	10%	100V
C1526	1-136-171-00	FILM	0.033MF	5%	50V
C1527	1-130-483-00	MYLAR	0.01MF	5%	50V
C1528	1-124-499-11	ELECT	1MF	20%	50V
C1529	1-126-103-11	ELECT	470MF	20%	16V
C1530	1-124-477-11	ELECT	47MF	20%	16V
C1531	1-136-173-00	FILM	0.47MF	5%	50V
C1532	1-124-903-11	ELECT	1MF	20%	50V
C1533	1-124-903-11	ELECT	1MF	20%	50V
C1534	1-126-101-11	ELECT	100MF	20%	16V
C1535	1-108-622-11	MYLAR	0.0047MF	10%	100V
C1536	1-124-927-11	ELECT	4.7MF	20%	50V
C1537	1-124-927-11	ELECT	4.7MF	20%	50V
C1538	1-102-129-00	CERAMIC	0.01MF	10%	50V
C1539	1-124-927-11	ELECT	4.7MF	20%	50V
C1540	1-106-375-12	MYLAR	0.022MF	10%	100V
C1541	1-130-477-00	MYLAR	0.0033MF	5%	50V
C1542	1-106-220-00	MYLAR	0.1MF	10%	100V
C1543	1-136-171-00	FILM	0.033MF	5%	50V
C1544	1-102-129-00	CERAMIC	0.01MF	10%	50V
C1545	1-124-903-11	ELECT	1MF	20%	50V
C1546	1-124-499-11	ELECT	1MF	20%	50V
C1547	1-124-927-11	ELECT	4.7MF	20%	50V
C1548	1-136-173-00	FILM	0.47MF	5%	50V
C1550	1-124-927-11	ELECT	4.7MF	20%	50V
C1551	1-124-907-11	ELECT	10MF	20%	50V
C1552	1-106-363-00	MYLAR	0.0068MF	10%	100V
C1553	1-136-173-00	FILM	0.47MF	5%	50V
C1554	1-126-103-11	ELECT	470MF	20%	16V
C1555	1-108-628-11	MYLAR	0.015MF	10%	100V
C1556	1-164-079-11	CERAMIC	330PF	10%	50V
C1557	1-129-793-00	FILM	0.047MF	5%	100V
C1558	1-124-907-11	ELECT	10MF	20%	50V
C1559	1-164-097-11	CERAMIC	0.022MF		50V
C1560	1-124-925-11	ELECT	2.2MF	20%	50V
C1561	1-102-816-00	CERAMIC	120PF	5%	50V
C1562	1-130-475-00	MYLAR	0.0022MF	10%	50V
C1563	1-164-079-11	CERAMIC	330PF	10%	50V
C1564	1-164-097-11	CERAMIC	0.022MF		50V
C1565	1-108-622-11	MYLAR	0.0047MF	10%	100V
C1566	1-124-903-11	ELECT	1MF	20%	50V
C1567	1-106-375-12	MYLAR	0.022MF	10%	100V
C1568	1-108-628-11	MYLAR	0.015MF	10%	100V
C1569	1-126-101-11	ELECT	100MF	20%	16V
C1570	1-124-902-00	ELECT	0.47MF	20%	50V
C1571	1-124-903-11	ELECT	1MF	20%	50V
C1572	1-124-903-11	ELECT	1MF	20%	50V
C1573	1-126-233-11	ELECT	22MF	20%	50V
C1574	1-126-233-11	ELECT	22MF	20%	50V
C1575	1-126-233-11	ELECT	22MF	20%	50V
C1576	1-124-907-11	ELECT	10MF	20%	50V
C1577	1-124-477-11	ELECT	47MF	20%	16V
C1578	1-124-907-11	ELECT	10MF	20%	50V
C1579	1-126-101-11	ELECT	100MF	20%	16V
C1580	1-164-097-11	CERAMIC	0.022MF		50V
C1581	1-126-103-11	ELECT	470MF	20%	16V
C1582	1-124-120-11	ELECT	220MF	20%	16V
C1583	1-162-293-31	CERAMIC	820PF	10%	50V
C1584	1-162-293-31	CERAMIC	820PF	10%	50V
C1585	1-124-907-11	ELECT	10MF	20%	50V
C1586	1-124-907-11	ELECT	10MF	20%	50V
		<COMPOSITION CIRCUIT BLOCK>			
CP1500	1-232-857-11	COMPOSITION CIRCUIT BLOCK			
		<DIODE>			
D1501	8-719-911-19	DIODE 1SS119			
D1502	8-719-109-97	DIODE RD6.8ES-B2			
D1503	8-719-110-08	DIODE RD8.2ES-B2			
D1504	8-719-109-68	DIODE RD3.6ES-B1			
D1505	8-719-911-19	DIODE 1SS119			
D1506	8-719-110-13	DIODE RD9.1ES-B2			
D1507	8-719-911-19	DIODE 1SS119			
D1508	8-719-911-19	DIODE 1SS119			
D1509	8-719-110-22	DIODE RD11ES-B2			
D1510	8-719-109-93	DIODE RD6.2ES-B2			
D1511	8-719-110-18	DIODE RD10ES-B3			
D1512	8-719-109-69	DIODE RD3.6ES-B2			
D1513	8-719-911-19	DIODE 1SS119			
D1514	8-719-911-19	DIODE 1SS119			
D1515	8-719-109-66	DIODE RD3.3ES-B2			
D1516	8-719-110-13	DIODE RD9.1ES-B2			
D1517	8-719-911-19	DIODE 1SS119			
D1521	8-719-109-92	DIODE RD6.2ES-B1			
D1522	8-719-911-19	DIODE 1SS119			
D1523	8-719-911-19	DIODE 1SS119			
D1524	8-719-911-19	DIODE 1SS119			
D1525	8-719-911-19	DIODE 1SS119			
D1526	8-719-913-44	DIODE ERA82-004			
D1527	8-719-911-19	DIODE 1SS119			
D1528	8-719-110-36	DIODE RD13ES-B2			
D1529	8-719-911-19	DIODE 1SS119			
D1530	8-719-911-19	DIODE 1SS119			
		<IC>			
IC1501	8-759-981-95	IC RC4558S			
IC1502	8-759-981-95	IC RC4558S			
IC1503	8-752-203-00	IC CX22030			
IC1504	8-759-100-60	IC UPC1377C			
IC1505	8-759-509-76	IC XRU4538B			

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1506	8-759-245-16	IC TC4516BP	
IC1507	8-759-981-95	IC RC4558S	
		<COIL>	
L1501	1-410-464-11	INDUCTOR 3.3UH	
L1502	1-408-080-00	INDUCTOR 100UH	
L1503	1-408-420-00	INDUCTOR 82UH	
		<IC LINK>	
PS1501	1-532-679-00	LINK, IC	
		<TRANSISTOR>	
Q1500	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1501	8-729-904-39	TRANSISTOR DTC114TS	
Q1502	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1503	8-729-904-39	TRANSISTOR DTC114TS	
Q1504	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1505	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1506	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1507	8-729-900-89	TRANSISTOR DTC144ES	
Q1508	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1509	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1510	8-729-904-39	TRANSISTOR DTC114TS	
Q1511	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1512	8-729-801-46	TRANSISTOR 2SC3064-F	
Q1514	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1515	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1516	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1517	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1518	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1519	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1520	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1521	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1522	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1523	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1524	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1526	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1527	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1529	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1531	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1532	8-729-115-30	TRANSISTOR 2SK105A-30	
Q1536	8-729-900-36	TRANSISTOR DTC124ES	
Q1537	8-729-900-89	TRANSISTOR DTC144ES	
Q1540	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1541	8-729-115-30	TRANSISTOR 2SK105A-30	
Q1542	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1543	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1544	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1545	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1546	8-729-115-30	TRANSISTOR 2SK105A-30	
Q1547	8-729-900-36	TRANSISTOR DTC124ES	
Q1548	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1549	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1550	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1551	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1554	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1555	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1556	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1557	8-729-900-89	TRANSISTOR DTC144ES	
Q1558	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1559	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1560	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1561	8-729-904-39	TRANSISTOR DTC114TS	
Q1562	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1563	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1564	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1565	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1566	8-729-900-65	TRANSISTOR DTA144ES	
Q1567	8-729-900-89	TRANSISTOR DTC144ES	
Q1568	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1569	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1570	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1572	8-729-900-89	TRANSISTOR DTC144ES	
Q1573	8-729-900-63	TRANSISTOR DTA124ES	
Q1574	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1575	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1576	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1579	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1580	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1581	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1582	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1583	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1584	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1585	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1586	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1587	8-729-900-89	TRANSISTOR DTC144ES	
Q1588	8-729-900-89	TRANSISTOR DTC144ES	
Q1589	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1591	8-729-900-89	TRANSISTOR DTC144ES	
Q1592	8-729-900-89	TRANSISTOR DTC144ES	
Q1593	8-729-900-89	TRANSISTOR DTC144ES	
Q1594	8-729-900-89	TRANSISTOR DTC144ES	
Q1595	8-729-900-89	TRANSISTOR DTC144ES	
Q1596	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1597	8-729-900-89	TRANSISTOR DTC144ES	
Q1598	8-729-900-89	TRANSISTOR DTC144ES	
Q1599	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1600	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1601	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1602	8-729-900-65	TRANSISTOR DTA144ES	
Q1603	8-729-900-89	TRANSISTOR DTC144ES	
		<RESISTOR>	
R1500	1-249-419-11	CARBON 1.5K 5% 1/4W	
R1501	1-247-891-00	CARBON 330K 5% 1/4W	
R1502	1-249-411-11	CARBON 330 5% 1/4W	
R1503	1-249-417-11	CARBON 1K 5% 1/4W	
R1504	1-249-417-11	CARBON 1K 5% 1/4W	
R1505	1-249-437-11	CARBON 47K 5% 1/4W	
R1506	1-249-437-11	CARBON 47K 5% 1/4W	
R1507⚠	1-215-459-91	METAL 39K 1% 1/4W	
R1508	1-215-459-00	METAL 39K 1% 1/4W	
R1509	1-215-417-00	METAL 680 1% 1/4W	
R1510	1-215-407-00	METAL 270 1% 1/4W	
R1511	1-249-429-11	CARBON 10K 5% 1/4W	
R1512	1-215-434-00	METAL 3.6K 1% 1/4W	
R1513	1-215-436-00	METAL 4.3K 1% 1/4W	
R1514	1-215-436-00	METAL 4.3K 1% 1/4W	
R1515	1-249-429-11	CARBON 10K 5% 1/4W	
R1516	1-249-429-11	CARBON 10K 5% 1/4W	
R1517	1-215-435-00	METAL 3.9K 1% 1/4W	
R1518	1-215-435-00	METAL 3.9K 1% 1/4W	
R1519	1-215-449-00	METAL 15K 1% 1/4W	

D2

- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1521	1-215-438-91	METAL	5.1K	1%	1/4W	
R1522	1-247-885-00	CARBON	180K	5%	1/4W	
R1523	1-249-429-11	CARBON	10K	5%	1/4W	
R1524	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1525	1-249-435-11	CARBON	33K	5%	1/4W	
R1526	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1527	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1528	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1529	1-249-437-11	CARBON	47K	5%	1/4W	
R1530	1-249-433-11	CARBON	22K	5%	1/4W	
R1531	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1532	1-215-453-00	METAL	22K	1%	1/4W	
R1533	1-215-467-00	METAL	82K	1%	1/4W	
R1534	1-215-429-00	METAL	2.2K	1%	1/4W	
R1535	1-247-868-11	CARBON	36K	5%	1/4W	
R1536	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1537	1-215-429-00	METAL	2.2K	1%	1/4W	
R1538	1-249-433-11	CARBON	22K	5%	1/4W	
R1539	1-215-452-00	METAL	20K	1%	1/4W	
R1540	1-249-429-11	CARBON	10K	5%	1/4W	
R1541	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1542	1-215-459-00	METAL	39K	1%	1/4W	
R1543	1-249-433-11	CARBON	22K	5%	1/4W	
R1544	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1545	1-249-431-11	CARBON	15K	5%	1/4W	
R1546	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1547	1-215-429-00	METAL	2.2K	1%	1/4W	
⊠R1548 ⚠		METAL			1/4W	
	*1-506-371-00	PIN, CONNECTOR 2P; R1548				
R1549	1-247-887-00	CARBON	220K	5%	1/4W	
R1550	1-249-433-11	CARBON	22K	5%	1/4W	
R1551	1-249-436-11	CARBON	39K	5%	1/4W	
R1552	1-215-445-00	METAL	10K	1%	1/4W	
R1553	1-249-429-11	CARBON	10K	5%	1/4W	
R1554	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1555	1-249-433-11	CARBON	22K	5%	1/4W	
R1557	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1558	1-249-417-11	CARBON	1K	5%	1/4W	
R1559	1-249-429-11	CARBON	10K	5%	1/4W	
R1560	1-249-435-11	CARBON	33K	5%	1/4W	
R1561	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1563	1-249-429-11	CARBON	10K	5%	1/4W	
R1564	1-249-429-11	CARBON	10K	5%	1/4W	
R1565	1-215-437-00	METAL	4.7K	1%	1/4W	
R1566	1-249-433-11	CARBON	22K	5%	1/4W	
R1568	1-215-439-00	METAL	5.6K	1%	1/4W	
R1569	1-215-480-00	METAL	300K	1%	1/4W	
R1570	1-215-429-00	METAL	2.2K	1%	1/4W	
R1571	1-215-409-00	METAL	330	1%	1/4W	
R1572	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1573	1-247-874-11	CARBON	62K	5%	1/4W	
R1574	1-249-429-11	CARBON	10K	5%	1/4W	
R1575	1-249-433-11	CARBON	22K	5%	1/4W	
R1577	1-247-713-11	CARBON	1K	5%	1/4W	
R1578	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1579	1-247-885-00	CARBON	180K	5%	1/4W	
R1580	1-249-430-11	CARBON	12K	5%	1/4W	
R1581	1-215-429-00	METAL	2.2K	1%	1/4W	
R1582	1-215-428-00	METAL	2K	1%	1/4W	
R1585	1-249-440-11	CARBON	82K	5%	1/4W	
R1586	1-215-411-00	METAL	390	1%	1/4W	
R1587	1-247-723-11	CARBON	6.8K	5%	1/4W	
R1588	1-249-441-11	CARBON	100K	5%	1/4W	
R1589	1-247-903-00	CARBON	1M	5%	1/4W	
R1590	1-215-445-00	METAL	10K	1%	1/4W	
R1591	1-247-891-00	CARBON	330K	5%	1/4W	
R1592	1-215-433-00	METAL	3.3K	1%	1/4W	
R1593	1-247-897-11	CARBON	560K	5%	1/4W	
R1594	1-249-441-11	CARBON	100K	5%	1/4W	
R1596	1-259-878-11	CARBON	1.5M	5%	1/4W	
R1597	1-215-483-00	METAL	390K	1%	1/4W	
R1598	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1599	1-249-435-11	CARBON	33K	5%	1/4W	
R1600	1-249-429-11	CARBON	10K	5%	1/4W	
R1601	1-249-429-11	CARBON	10K	5%	1/4W	
R1603	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1604	1-249-441-11	CARBON	100K	5%	1/4W	
R1605	1-215-449-00	METAL	15K	1%	1/4W	
R1606	1-259-884-11	CARBON	4.7M	5%	1/4W	
R1607	1-215-443-00	METAL	8.2K	1%	1/4W	
R1608	1-215-449-00	METAL	15K	1%	1/4W	
R1609	1-249-433-11	CARBON	22K	5%	1/4W	
R1611	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1612	1-249-433-11	CARBON	22K	5%	1/4W	
R1613	1-249-437-11	CARBON	47K	5%	1/4W	
R1614	1-249-417-11	CARBON	1K	5%	1/4W	
R1615	1-249-433-11	CARBON	22K	5%	1/4W	
R1616	1-215-471-00	METAL	120K	1%	1/4W	
R1619	1-249-437-11	CARBON	47K	5%	1/4W	
R1620	1-249-417-11	CARBON	1K	5%	1/4W	
R1621	1-249-417-11	CARBON	1K	5%	1/4W	
R1622	1-215-459-00	METAL	39K	1%	1/4W	
R1623	1-215-445-00	METAL	10K	1%	1/4W	
R1624	1-249-417-11	CARBON	1K	5%	1/4W	
R1625	1-215-466-00	METAL	75K	1%	1/4W	
R1626	1-215-488-00	METAL	620K	1%	1/4W	
R1628	1-249-435-11	CARBON	33K	5%	1/4W	
R1629	1-249-435-11	CARBON	33K	5%	1/4W	
R1630	1-249-417-11	CARBON	1K	5%	1/4W	
R1631	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1632	1-249-433-11	CARBON	22K	5%	1/4W	
R1633	1-249-417-11	CARBON	1K	5%	1/4W	
R1634	1-249-435-11	CARBON	33K	5%	1/4W	
R1635	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1636	1-249-429-11	CARBON	10K	5%	1/4W	
R1637	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1638	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1639	1-249-437-11	CARBON	47K	5%	1/4W	
R1640	1-249-433-11	CARBON	22K	5%	1/4W	
R1641	1-249-429-11	CARBON	10K	5%	1/4W	
R1642	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1643	1-215-445-00	METAL	10K	1%	1/4W	
R1644	1-249-412-11	CARBON	390	5%	1/4W	
R1645	1-249-429-11	CARBON	10K	5%	1/4W	
R1646	1-249-433-11	CARBON	22K	5%	1/4W	
R1647	1-249-417-11	CARBON	1K	5%	1/4W	
R1649	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1650	1-249-429-11	CARBON	10K	5%	1/4W	
R1651	1-249-411-11	CARBON	330	5%	1/4W	
R1652	1-249-437-11	CARBON	47K	5%	1/4W	
R1653	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1654	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1655	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1656	1-249-429-11	CARBON	10K	5%	1/4W	
R1657	1-249-437-11	CARBON	47K	5%	1/4W	
R1658	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1659	1-249-440-11	CARBON	82K	5%	1/4W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1660	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1661	1-249-406-11	CARBON	120	5%	1/4W	
R1662	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1663	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1664	1-249-439-11	CARBON	68K	5%	1/4W	
R1665	1-249-439-11	CARBON	68K	5%	1/4W	
R1666	1-249-433-11	CARBON	22K	5%	1/4W	
R1670	1-214-729-00	METAL	1K	1%	1/4W	
R1670	1-214-731-00	METAL	1.2K	1%	1/4W	
R1670	1-214-733-00	METAL	1.5K	1%	1/4W	
✱R1670	1-214-735-00	METAL	1.8K	1%	1/4W	
✱R1670	1-214-737-00	METAL	2.2K	1%	1/4W	
✱R1670	1-214-739-00	METAL	2.7K	1%	1/4W	
✱R1670	1-214-741-00	METAL	3.3K	1%	1/4W	
✱R1670	1-214-743-00	METAL	3.9K	1%	1/4W	
✱R1670	1-214-745-00	METAL	4.7K	1%	1/4W	
✱R1670	1-214-747-00	METAL	5.6K	1%	1/4W	
✱R1670	1-214-749-00	METAL	6.8K	1%	1/4W	
✱R1670	1-214-751-00	METAL	8.2K	1%	1/4W	
✱R1670	1-214-753-00	METAL	10K	1%	1/4W	
✱R1670	1-214-757-00	METAL	15K	1%	1/4W	
✱R1670	1-214-761-00	METAL	22K	1%	1/4W	
✱R1670	1-214-765-00	METAL	33K	1%	1/4W	
✱R1670	1-214-769-00	METAL	47K	1%	1/4W	
✱R1670	1-214-773-00	METAL	68K	1%	1/4W	
✱R1670	1-214-777-00	METAL	100K	1%	1/4W	
	*1-506-371-00	PIN, CONNECTOR 2P; R1670				
R1671	1-249-405-11	CARBON	100	5%	1/4W	
R1672	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1673	1-215-470-00	METAL	110K	1%	1/4W	
R1674	1-249-439-11	CARBON	68K	5%	1/4W	
R1675	1-215-417-00	METAL	680	1%	1/4W	
R1676	1-247-700-11	CARBON	100	5%	1/4W	
R1677	1-249-437-11	CARBON	47K	5%	1/4W	
✱R1678	1-214-729-00	METAL	1K	1%	1/4W	
✱R1678	1-214-733-00	METAL	1.5K	1%	1/4W	
✱R1678	1-214-735-00	METAL	1.8K	1%	1/4W	
✱R1678	1-214-737-00	METAL	2.2K	1%	1/4W	
✱R1678	1-214-739-00	METAL	2.7K	1%	1/4W	
✱R1678	1-214-741-00	METAL	3.3K	1%	1/4W	
✱R1678	1-214-743-00	METAL	3.9K	1%	1/4W	
✱R1678	1-214-745-00	METAL	4.7K	1%	1/4W	
✱R1678	1-214-747-00	METAL	5.6K	1%	1/4W	
✱R1678	1-214-749-00	METAL	6.8K	1%	1/4W	
✱R1678	1-214-751-00	METAL	8.2K	1%	1/4W	
✱R1678	1-214-753-00	METAL	10K	1%	1/4W	
✱R1678	1-214-755-00	METAL	12K	1%	1/4W	
✱R1678	1-214-756-00	METAL	13K	1%	1/4W	
✱R1678	1-214-757-00	METAL	15K	1%	1/4W	
✱R1678	1-214-759-00	METAL	16K	1%	1/4W	
✱R1678	1-214-759-00	METAL	18K	1%	1/4W	
✱R1678	1-214-760-00	METAL	20K	1%	1/4W	
✱R1678	1-214-761-00	METAL	22K	1%	1/4W	
✱R1678	1-214-762-00	METAL	24K	1%	1/4W	
✱R1678	1-214-763-00	METAL	27K	1%	1/4W	
✱R1678	1-214-764-00	METAL	30K	1%	1/4W	
✱R1678	1-214-765-00	METAL	33K	1%	1/4W	
✱R1678	1-214-767-00	METAL	39K	1%	1/4W	
✱R1678	1-214-769-00	METAL	47K	1%	1/4W	
	*1-506-371-00	PIN, CONNECTOR 2P	R1678			
R1679	1-249-413-11	CARBON	470	5%	1/4W	
R1680	1-247-897-11	CARBON	560K	5%	1/4W	
R1681	1-249-429-11	CARBON	10K	5%	1/4W	
R1682	1-249-417-11	CARBON	1K	5%	1/4W	
R1683	1-249-439-11	CARBON	68K	5%	1/4W	
R1684	1-249-437-11	CARBON	47K	5%	1/4W	
R1685	1-249-435-11	CARBON	33K	5%	1/4W	
R1686	1-249-430-11	CARBON	12K	5%	1/4W	
R1687	1-249-435-11	CARBON	33K	5%	1/4W	
R1688	1-247-887-00	CARBON	220K	5%	1/4W	
R1689	1-249-435-11	CARBON	33K	5%	1/4W	
R1690	1-249-435-11	CARBON	33K	5%	1/4W	
R1691	1-249-436-11	CARBON	39K	5%	1/4W	
R1692	1-249-429-11	CARBON	10K	5%	1/4W	
R1693	1-249-429-11	CARBON	10K	5%	1/4W	
R1694	1-215-450-00	METAL	16K	1%	1/4W	
R1695	1-249-433-11	CARBON	22K	5%	1/4W	
R1696	1-249-441-11	CARBON	100K	5%	1/4W	
R1697	1-249-414-11	CARBON	560	5%	1/4W	
R1698	1-249-414-11	CARBON	560	5%	1/4W	
R1699	1-249-439-11	CARBON	68K	5%	1/4W	
R1700	1-249-437-11	CARBON	47K	5%	1/4W	
R1701	1-249-433-11	CARBON	22K	5%	1/4W	
R1702	1-249-417-11	CARBON	1K	5%	1/4W	
R1703	1-249-417-11	CARBON	1K	5%	1/4W	
R1704	1-249-439-11	CARBON	68K	5%	1/4W	
R1705	1-249-437-11	CARBON	47K	5%	1/4W	
R1706	1-249-405-11	CARBON	100	5%	1/4W	
R1707	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1708	1-249-440-11	CARBON	82K	5%	1/4W	
R1709	1-249-417-11	CARBON	1K	5%	1/4W	
R1710	1-215-462-00	METAL	51K	1%	1/4W	
R1711	1-249-435-11	CARBON	33K	5%	1/4W	
R1712	1-249-417-11	CARBON	1K	5%	1/4W	
R1714	1-249-411-11	CARBON	330	5%	1/4W	
R1715	1-249-430-11	CARBON	12K	5%	1/4W	
R1716	1-249-437-11	CARBON	47K	5%	1/4W	
R1717	1-249-405-11	CARBON	100	5%	1/4W	
R1718	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1719	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1720	1-249-405-11	CARBON	100	5%	1/4W	
R1721	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1722	1-249-411-11	CARBON	330	5%	1/4W	
R1724	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1725	1-249-440-11	CARBON	82K	5%	1/4W	
R1726	1-249-409-11	CARBON	220	5%	1/4W	
R1727	1-249-435-11	CARBON	33K	5%	1/4W	
R1728	1-247-713-11	CARBON	1K	5%	1/4W	
✱R1729	1-214-762-00	METAL	24K	1%	1/4W	
✱R1729	1-214-763-00	METAL	27K	1%	1/4W	
✱R1729	1-214-764-00	METAL	30K	1%	1/4W	
✱R1729	1-214-765-00	METAL	33K	1%	1/4W	
✱R1729	1-214-766-00	METAL	36K	1%	1/4W	
✱R1729	1-214-767-00	METAL	39K	1%	1/4W	
✱R1729	1-214-768-00	METAL	43K	1%	1/4W	
✱R1729	1-214-769-00	METAL	47K	1%	1/4W	
✱R1729	1-214-770-00	METAL	51K	1%	1/4W	
✱R1729	1-214-771-00	METAL	56K	1%	1/4W	
✱R1729	1-214-773-00	METAL	68K	1%	1/4W	
✱R1729	1-214-775-00	METAL	82K	1%	1/4W	
✱R1729	1-214-777-00	METAL	100K	1%	1/4W	
✱R1729	1-214-781-00	METAL	150K	1%	1/4W	
✱R1729	1-214-785-00	METAL	220K	1%	1/4W	
✱R1729	1-214-787-00	METAL	270K	1%	1/4W	
	*1-506-371-00	PIN, CONNECTOR 2P; R1729				
R1730	1-259-884-11	CARBON	4.7M	5%	1/4W	
R1731	1-259-882-11	CARBON	3.3M	5%	1/4W	

D2 D3

- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1732	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1733	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1734	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1735	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1736	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1737	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1738	1-249-437-11	CARBON	47K	5%	1/4W	
R1739	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1740	1-249-441-11	CARBON	100K	5%	1/4W	
R1741	1-249-437-11	CARBON	47K	5%	1/4W	
R1742	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1743	1-249-433-11	CARBON	22K	5%	1/4W	
R1744	1-249-437-11	CARBON	47K	5%	1/4W	
R1745	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1746	1-249-429-11	CARBON	10K	5%	1/4W	
R1747	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1748	1-249-429-11	CARBON	10K	5%	1/4W	
R1749	1-249-429-11	CARBON	10K	5%	1/4W	
⊠R1751 ⚠		METAL			1/4W	
	*1-506-371-00	PIN, CONNECTOR 2P; R1751				
R1752	1-249-437-11	CARBON	47K	5%	1/4W	
R1753	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1754	1-249-437-11	CARBON	47K	5%	1/4W	
R1755	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1756	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1757	1-247-895-00	CARBON	470K	5%	1/4W	
R1758	1-249-458-11	CARBON	8.2	5%	1/4W	F
R1759	1-215-477-00	METAL	220K	1%	1/4W	
R1760	1-215-481-00	METAL	330K	1%	1/4W	
R1761	1-249-417-11	CARBON	1K	5%	1/4W	
R1762	1-249-440-11	CARBON	82K	5%	1/4W	
R1763	1-259-881-11	CARBON	2.7M	5%	1/4W	
R1764	1-249-436-11	CARBON	39K	5%	1/4W	
R1765	1-249-439-11	CARBON	68K	5%	1/4W	
R1766	1-259-881-11	CARBON	2.7M	5%	1/4W	
R1767	1-249-439-11	CARBON	68K	5%	1/4W	
R1768	1-249-417-11	CARBON	1K	5%	1/4W	
R1769	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1770	1-249-429-11	CARBON	10K	5%	1/4W	
R1773	1-249-433-11	CARBON	22K	5%	1/4W	
R1774	1-249-437-11	CARBON	47K	5%	1/4W	
R1775	1-249-437-11	CARBON	47K	5%	1/4W	
R1776	1-249-409-11	CARBON	220	5%	1/4W	
R1777	1-249-429-11	CARBON	10K	5%	1/4W	
R1778	1-215-469-00	METAL	100K	1%	1/4W	
R1779	1-215-461-00	METAL	47K	1%	1/4W	
R1780	1-249-417-11	CARBON	1K	5%	1/4W	
R1781	1-249-417-11	CARBON	1K	5%	1/4W	
R1782	1-249-417-11	CARBON	1K	5%	1/4W	
R1783	1-249-437-11	CARBON	47K	5%	1/4W	
R1784	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1785	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1788	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1789	1-215-860-11	METAL OXIDE	33	5%	1W	F
R1790	1-247-887-00	CARBON	220K	5%	1/4W	

<VARIABLE RESISTOR>

RV1500	1-228-994-00	RES, ADJ, CARBON 10K	
RV1501	1-228-989-00	RES, ADJ, METAL GLAZE 470	
RV1502	1-228-993-00	RES, ADJ, METAL GLAZE 4.7K	
RV1503	1-228-999-00	RES, ADJ, METAL GLAZE 470K	
RV1504	1-228-994-00	RES, ADJ, CARBON 10K	
RV1505	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV1507	1-228-998-00	RES, ADJ, CARBON 220K	
RV1509	1-228-993-00	RES, ADJ, CARBON 4.7K	
RV1510	1-228-991-00	RES, ADJ, CARBON 2.2K	
RV1511	1-228-998-00	RES, ADJ, CARBON 220K	
RV1512	1-228-997-00	RES, ADJ, CARBON 100K	
RV1513	1-228-997-00	RES, ADJ, CARBON 100K	
RV1514	1-224-253-XX	RES, ADJ, METAL GLAZE 22K	
RV1515	1-237-524-21	RES, ADJ, CARBON 1M	
RV1516	1-228-995-00	RES, ADJ, CARBON 22K	
RV1517	1-228-995-00	RES, ADJ, CARBON 22K	
RV1518	1-228-995-00	RES, ADJ, CARBON 22K	
RV1521	1-228-997-00	RES, ADJ, CARBON 100K	
RV1522	1-228-991-00	RES, ADJ, CARBON 2.2K	
RV1601	1-228-995-00	RES, ADJ, CARBON 22K	
RV1602	1-228-996-00	RES, ADJ, CARBON 47K	

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	*A-1341-431-B	D3 BOARD, COMPLETE
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	*1-564-511-11	PLUG, CONNECTOR 8P
	*1-564-512-11	PLUG, CONNECTOR 9P
	*1-564-513-11	PLUG, CONNECTOR 10P
	*1-564-516-11	PLUG, CONNECTOR 13P

<CAPACITOR>

C2501	1-124-907-11	ELECT	10MF	20%	50V
C2502	1-124-907-11	ELECT	10MF	20%	50V
C2503	1-124-907-11	ELECT	10MF	20%	50V
C2504	1-124-478-11	ELECT	100MF	20%	25V
C2505	1-102-129-00	CERAMIC	0.01MF	10%	50V
C2506	1-108-626-11	MYLAR	0.01MF	10%	100V
C2507	1-102-129-00	CERAMIC	0.01MF	10%	50V
C2508	1-124-910-11	ELECT	47MF	20%	50V
C2509	1-102-115-00	CERAMIC	560PF	10%	50V
C2510	1-124-657-00	ELECT	10MF	20%	50V
C2511	1-124-480-11	ELECT	470MF	20%	25V
C2512	1-126-101-11	ELECT	100MF	20%	16V
C2513	1-124-477-11	ELECT	47MF	20%	16V
C2514	1-101-004-00	CERAMIC	0.01MF		50V
C2515	1-101-004-00	CERAMIC	0.01MF		50V

<DIODE>

D2501	8-719-911-19	DIODE 1SS119
D2502	8-719-911-19	DIODE 1SS119
D2503	8-719-911-19	DIODE 1SS119
D2504	8-719-911-19	DIODE 1SS119
D2505	8-719-911-19	DIODE 1SS119
D2506	8-719-911-19	DIODE 1SS119
D2507	8-719-911-19	DIODE 1SS119
D2508	8-719-911-19	DIODE 1SS119
D2510	8-719-911-19	DIODE 1SS119
D2511	8-719-911-19	DIODE 1SS119
D2513	8-719-911-19	DIODE 1SS119
D2514	8-719-911-19	DIODE 1SS119
D2515	8-719-911-19	DIODE 1SS119
D2516	8-719-911-19	DIODE 1SS119

<TRANSISTOR>

Q2501	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q2502	8-729-374-02	TRANSISTOR 2SB740-3
Q2503	8-729-900-89	TRANSISTOR DTC144ES

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION	REMARK
Q2504	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2505	8-729-374-02	TRANSISTOR 2SB740-3	
Q2506	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2507	8-729-900-89	TRANSISTOR DTC144ES	
Q2508	8-729-374-02	TRANSISTOR 2SB740-3	
Q2509	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2510	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2511	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2512	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2513	8-729-900-80	TRANSISTOR DTC114ES	
Q2514	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2515	8-729-900-89	TRANSISTOR DTC144ES	
Q2516	8-729-900-89	TRANSISTOR DTC144ES	
Q2517	8-729-900-89	TRANSISTOR DTC144ES	
Q2518	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2519	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2520	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q2521	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q2522	8-729-900-89	TRANSISTOR DTC144ES	
Q2523	8-729-900-89	TRANSISTOR DTC144ES	
Q2524	8-729-900-89	TRANSISTOR DTC144ES	
Q2525	8-729-900-89	TRANSISTOR DTC144ES	
Q2526	8-729-900-65	TRANSISTOR DTA144ES	
Q2527	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2528	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q2529	8-729-900-89	TRANSISTOR DTC144ES	

<RESISTOR>

R2501	1-249-437-11	CARBON	47K	5%	1/4W	
R2502	1-249-437-11	CARBON	47K	5%	1/4W	
R2503	1-249-437-11	CARBON	47K	5%	1/4W	
R2504	1-249-437-11	CARBON	47K	5%	1/4W	
R2505	1-216-471-11	METAL OXIDE	27	5%	3W	F
R2506	1-249-429-11	CARBON	10K	5%	1/4W	
R2507	1-249-423-11	CARBON	3.3K	5%	1/4W	
R2508	1-249-429-11	CARBON	10K	5%	1/4W	
R2509	1-249-440-11	CARBON	82K	5%	1/4W	
R2510	1-249-431-11	CARBON	15K	5%	1/4W	
R2511	1-247-887-00	CARBON	220K	5%	1/4W	
R2513	1-249-429-11	CARBON	10K	5%	1/4W	
R2514	1-249-429-11	CARBON	10K	5%	1/4W	
R2515	1-249-440-11	CARBON	82K	5%	1/4W	
R2516	1-249-423-11	CARBON	3.3K	5%	1/4W	
R2517	1-259-878-11	CARBON	1.5M	5%	1/4W	
R2518	1-249-435-11	CARBON	33K	5%	1/4W	
R2519	1-249-411-11	CARBON	330	5%	1/4W	
R2520	1-249-429-11	CARBON	10K	5%	1/4W	
R2521	1-249-440-11	CARBON	82K	5%	1/4W	
R2522	1-249-429-11	CARBON	10K	5%	1/4W	
R2524	1-249-405-11	CARBON	100	5%	1/4W	
R2525	1-249-436-11	CARBON	39K	5%	1/4W	
R2526	1-249-429-11	CARBON	10K	5%	1/4W	
R2527	1-249-440-11	CARBON	82K	5%	1/4W	
R2528	1-249-429-11	CARBON	10K	5%	1/4W	
R2529	1-249-425-11	CARBON	4.7K	5%	1/4W	
R2530	1-249-429-11	CARBON	10K	5%	1/4W	
R2531	1-247-887-00	CARBON	220K	5%	1/4W	
R2532	1-249-417-11	CARBON	1K	5%	1/4W	
R2533	1-249-426-11	CARBON	5.6K	5%	1/4W	
R2534	1-249-433-11	CARBON	22K	5%	1/4W	
R2535	1-249-439-11	CARBON	68K	5%	1/4W	
R2536	1-249-426-11	CARBON	5.6K	5%	1/4W	
R2537	1-249-405-11	CARBON	100	5%	1/4W	
R2538	1-249-421-11	CARBON	2.2K	5%	1/4W	
R2539	1-249-411-11	CARBON	330	5%	1/4W	
R2540	1-249-426-11	CARBON	5.6K	5%	1/4W	
R2542	1-249-435-11	CARBON	33K	5%	1/4W	
R2543	1-249-439-11	CARBON	68K	5%	1/4W	
R2544	1-249-421-11	CARBON	2.2K	5%	1/4W	
R2545	1-249-411-11	CARBON	330	5%	1/4W	
R2549	1-247-891-00	CARBON	330K	5%	1/4W	
R2550	1-247-891-00	CARBON	330K	5%	1/4W	
R2551	1-249-430-11	CARBON	12K	5%	1/4W	
R2552	1-249-426-11	CARBON	5.6K	5%	1/4W	
R2553	1-249-425-11	CARBON	4.7K	5%	1/4W	
R2554	1-249-423-11	CARBON	3.3K	5%	1/4W	
R2555	1-249-413-11	CARBON	470	5%	1/4W	
R2556	1-247-887-00	CARBON	220K	5%	1/4W	
R2557	1-249-423-11	CARBON	3.3K	5%	1/4W	
R2558	1-249-423-11	CARBON	3.3K	5%	1/4W	

<VARIABLE RESISTOR>

RV2501	1-228-994-00	RES, ADJ, CARBON 10K	
RV2503	1-228-999-00	RES, ADJ, CARBON 470K	
RV2504	1-228-996-00	RES, ADJ, CARBON 47K	
RV2505	1-228-995-00	RES, ADJ, CARBON 22K	

****

*A-1346-055-A	D1 BOARD, COMPLETE	
	**********	
*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P	
*1-564-506-11	PLUG, CONNECTOR 3P	
*1-564-516-11	PLUG, CONNECTOR 13P	
*1-564-674-11	PIN, CONNECTOR 8P	
*1-580-798-11	CONNECTOR PIN (DY) 6P	
*4-341-751-01	EYELET EY9-EY70	
*4-341-752-01	EYELET EY1-EY8	
*4-381-827-01	HOLDER, TR	
4-382-854-01	SCREW (M3X8), P, SW (+)	

<CAPACITOR>

C501	1-123-024-21	ELECT	33MF		160V
C502	1-124-902-00	ELECT	0.47MF	20%	50V
C503	1-124-119-00	ELECT	330MF	20%	16V
C504	1-124-484-11	ELECT	220MF	20%	35V
C505	1-124-126-00	ELECT	47MF	20%	25V
C506	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C507	1-126-101-11	ELECT	100MF	20%	16V
C508	1-106-391-12	MYLAR	0.1MF	10%	200V
C509	1-124-634-11	ELECT	1MF	20%	250V
C510	1-123-379-00	ELECT	0.47MF	20%	50V
C511	1-136-541-11	FILM	1.5MF	5%	200V
C512	1-106-365-00	MYLAR	0.0082MF	99%	200V
C513	1-136-627-11	FILM	0.022MF	3%	1KV
C514	1-136-569-11	FILM	1.2MF	5%	200V
C515 ⚠	1-130-336-51	FILM	0.0068MF	5%	630V
C517	1-126-233-11	ELECT	22MF	20%	50V
C518	1-136-598-11	FILM	3MF	5%	200V
C519	1-126-234-11	ELECT	2200MF	20%	16V
C520	1-106-383-00	MYLAR	0.047MF	99%	200V
C521	1-124-907-11	ELECT	10MF	20%	50V
C522	1-124-927-11	ELECT	4.7MF	20%	50V
C523	1-124-477-11	ELECT	47MF	20%	16V
C524	1-162-114-00	CERAMIC	0.0047MF		2KV

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D1

REF.NO.	PART NO.	DESCRIPTION				REMARK
C525	1-108-965-11	MYLAR	0.33MF	10%	200V	
C526	1-123-949-00	ELECT	33MF	20%	250V	
C527	1-136-569-11	FILM	1.2MF	5%	200V	
C528	1-102-978-00	CERAMIC	220PF	5%	50V	
C529	1-124-562-11	ELECT	47MF	20%	160V	
C531	1-129-702-00	FILM	0.001MF	10%	630V	
C532	1-126-105-11	ELECT	1000MF	20%	35V	
C533	1-126-101-11	ELECT	100MF	20%	16V	
C534	1-129-702-00	FILM	0.001MF	10%	630V	
C535	1-124-347-00	ELECT	100MF	20%	160V	
C536	1-136-598-11	FILM	3MF	5%	200V	
C537	1-124-120-11	ELECT	220MF	20%	16V	
C538	1-162-116-00	CERAMIC	680PF	10%	2KV	
C539	1-108-688-11	MYLAR	0.0047MF	10%	200V	
C540 ⚠	1-162-115-91	CERAMIC	330PF	10%	2KV	
C542	1-102-038-00	CERAMIC	0.001MF		500V	
C543	1-136-853-11	FILM	0.56MF	5%	200V	
C544	1-106-355-12	MYLAR	0.0033MF	10%	100V	
C545	1-124-799-11	ELECT	2.2MF	20%	160V	
C546	1-102-038-00	CERAMIC	0.001MF		500V	
C547	1-129-720-00	FILM	0.033MF	5%	630V	
C548	1-106-359-00	MYLAR	0.0047MF	10%	100V	
C549	1-106-343-00	MYLAR	0.001MF	10%	100V	
C550	1-162-117-00	CERAMIC	100PF	10%	500V	
C551	1-124-907-11	ELECT	10MF	20%	50V	
C552	1-129-723-00	FILM	0.056MF	5%	630V	
C553 ⚠	1-108-429-91	MYLAR	0.047MF	99%	200V	
C554	1-106-363-00	MYLAR	0.0068MF	10%	100V	
C555	1-136-071-00	FILM	0.0057MF	3%	2KV	
C556	1-124-477-11	ELECT	47MF	20%	16V	
C557	1-124-667-11	ELECT	10MF	20%	100V	
C558	1-106-367-00	MYLAR	0.01MF	10%	100V	
C559	1-126-163-11	ELECT	4.7MF	20%	50V	
C560	1-106-367-00	MYLAR	0.01MF	10%	100V	
C561 ⚠	1-162-134-91	CERAMIC	470PF	10%	2KV	
C562	1-136-173-00	FILM	0.47MF	5%	50V	
C563	1-106-367-00	MYLAR	0.01MF	10%	100V	
C564	1-162-134-11	CERAMIC	470PF	10%	2KV	
C565	1-162-134-11	CERAMIC	470PF	10%	2KV	
C567	1-162-282-31	CERAMIC	100PF	10%	50V	
C569	1-164-077-11	CERAMIC	220PF	10%	50V	
C570	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C571	1-102-110-00	CERAMIC	220PF	10%	50V	
C572	1-162-131-11	CERAMIC	220PF	10%	2KV	
C573	1-162-116-00	CERAMIC	680PF	10%	2KV	

<DIODE>

D505	8-719-901-95	DIODE V19CSS
D507	8-719-976-64	DIODE RGP02-17
D508	8-719-109-90	DIODE RD5.6ES-B3
D509	8-719-911-55	DIODE U05G
D510	8-719-976-64	DIODE RGP02-17
D512	8-719-110-48	DIODE RD18ES-B1
D513	8-719-973-95	DIODE ERD09-15
D514	8-719-971-20	DIODE ERC38-06
D515	8-719-973-95	DIODE ERD09-15
D516	8-719-911-55	DIODE U05G
D518	8-719-971-20	DIODE ERC38-06
D519	8-719-302-59	DIODE FMU-26S
D520	8-719-911-19	DIODE 1SS119
D521	8-719-911-19	DIODE 1SS119
D522	8-719-971-20	DIODE ERC38-06
D525	8-719-300-33	DIODE RU-3AM
D526	8-719-911-55	DIODE U05G
D527	8-719-300-33	DIODE RU-3AM
D528	8-719-911-19	DIODE 1SS119
D529	8-719-911-19	DIODE 1SS119
D530	8-719-911-19	DIODE 1SS119
D531	8-719-911-19	DIODE 1SS119

<IC>

IC501	8-759-982-26	IC RC78L12A
IC502	8-759-014-95	IC MC1495L
IC503	8-759-981-95	IC RC4558S

<COIL>

L501	1-459-215-00	CORE COIL
L502	1-421-421-00	COIL, CHOKE 100UH
L503 ⚠	1-459-671-11	COIL (WITH CORE)
L504 ⚠	1-459-670-12	H.L.C
L505	1-459-104-00	COIL, DUST CORE
L506	1-408-229-00	INDUCTOR 680UH
L507	1-408-092-00	INDUCTOR 330UH
L508	1-422-613-11	COIL, AIR CORE
L509	1-459-215-00	CORE COIL
L510	1-459-454-00	COIL, FERRITE CHOKE
L511	1-421-329-00	COIL, CHOKE
L512	1-459-123-00	COIL,DUST CORE(PAC)
L513	1-408-072-00	INDUCTOR 47UH

<NEON LAMP>

NL502	1-519-108-XX	LAMP, NEON

<TRANSISTOR>

Q502	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q504	8-729-140-97	TRANSISTOR 2SB734-34
Q505	8-729-140-96	TRANSISTOR 2SD774-34
Q507	8-729-140-96	TRANSISTOR 2SD774-34
Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q509	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q511	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q513	8-729-805-07	TRANSISTOR 2SD1887-CA
Q516	8-729-140-96	TRANSISTOR 2SD774-34
Q517	8-729-140-97	TRANSISTOR 2SB734-34
Q519	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q520	8-729-900-36	TRANSISTOR DTC124ES
Q521	8-729-803-82	TRANSISTOR 2SC3468-E
Q522	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q523	8-729-401-18	TRANSISTOR 2SB940-P
Q524	8-729-401-21	TRANSISTOR 2SD1264-P
Q525	8-729-900-36	TRANSISTOR DTC124ES
Q526	8-729-906-95	TRANSISTOR 2SD2061-D

<RESISTOR>

R500	1-215-918-00	METAL OXIDE	1.5K	5%	3W F
R501	1-249-425-11	CARBON	4.7K	5%	1/4W
R503	1-249-428-11	CARBON	8.2K	5%	1/4W
R504	1-249-431-11	CARBON	15K	5%	1/4W
R505	1-249-466-11	CARBON	56K	5%	1/4W
R506	1-249-427-11	CARBON	6.8K	5%	1/4W
R507	1-249-426-11	CARBON	5.6K	5%	1/4W

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R508	1-249-409-11	CARBON	220	5%	1/4W	
R509	1-247-719-11	CARBON	3.3K	5%	1/4W	
R510	1-249-429-11	CARBON	10K	5%	1/4W	
R512	1-216-430-11	METAL OXIDE	390	5%	1W	F
R513	1-249-431-11	CARBON	15K	5%	1/4W	
R514	1-249-440-11	CARBON	82K	5%	1/4W	
R515	1-216-450-00	METAL OXIDE	82	5%	2W	F
R516	1-249-417-11	CARBON	1K	5%	1/4W	
R517	1-216-425-11	METAL OXIDE	56	5%	1W	F
R518	1-249-425-11	CARBON	4.7K	5%	1/4W	
R519	1-249-406-11	CARBON	120	5%	1/4W	
R520	1-215-886-11	METAL OXIDE	100	5%	2W	F
R522	1-249-429-11	CARBON	10K	5%	1/4W	
R523	1-216-422-11	METAL OXIDE	18	5%	1W	F
R524	1-249-427-11	CARBON	6.8K	5%	1/4W	
R525	1-249-429-11	CARBON	10K	5%	1/4W	
R526	1-249-429-11	CARBON	10K	5%	1/4W	
R527	1-249-433-11	CARBON	22K	5%	1/4W	
R528	1-249-434-11	CARBON	27K	5%	1/4W	
R529	1-249-406-11	CARBON	120	5%	1/4W	
R530	1-202-719-00	SOLID	1M	10%	1/2W	
R531	1-215-863-11	METAL OXIDE	100	5%	1W	F
R532	1-249-432-11	CARBON	18K	5%	1/4W	
R534	1-249-432-11	CARBON	18K	5%	1/4W	
R535	1-249-429-11	CARBON	10K	5%	1/4W	
R536	1-202-849-00	SOLID	820K	10%	1/2W	
R537	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R538	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
R539	1-249-427-11	CARBON	6.8K	5%	1/4W	
R540	1-249-414-11	CARBON	560	5%	1/4W	
R541	1-202-719-00	SOLID	1M	10%	1/2W	
R542	1-249-422-11	CARBON	2.7K	5%	1/4W	
R543	1-249-438-11	CARBON	56K	5%	1/4W	
R544	1-249-419-11	CARBON	1.5K	5%	1/4W	
R545	1-249-429-11	CARBON	10K	5%	1/4W	
R546	1-216-349-00	METAL OXIDE	1	5%	1W	F
R549	1-216-428-00	METAL OXIDE	180	5%	1W	F
R550	1-249-424-11	CARBON	3.9K	5%	1/4W	
R551	1-215-882-00	METAL OXIDE	22	5%	2W	F
R553	1-216-371-00	METAL OXIDE	1.5	5%	2W	F
R554	1-249-429-11	CARBON	10K	5%	1/4W	
R555	1-249-427-11	CARBON	6.8K	5%	1/4W	
R556	1-214-786-00	METAL	240K	1%	1/4W	
R557	1-249-429-11	CARBON	10K	5%	1/4W	
R558	1-214-925-00	CARBON	330K	5%	1/2W	
R559 ⚠	1-213-074-51	FUSIBLE	39	5%	1W	F
R560	1-216-369-00	METAL OXIDE	1	5%	2W	F
R563	1-249-387-11	CARBON	3.3	5%	1/4W	F
R564	1-249-429-11	CARBON	10K	5%	1/4W	
R565	1-247-721-11	CARBON	4.7K	5%	1/4W	
R566	1-247-720-11	CARBON	3.9K	5%	1/4W	
R567	1-215-892-11	METAL OXIDE	1K	5%	2W	F
R569	1-216-454-11	METAL OXIDE	390	5%	2W	F
R570	1-215-890-11	METAL OXIDE	470	5%	2W	F
R571	1-202-841-00	SOLID	180K	10%	1/2W	
R572	1-202-842-11	SOLID	220K	10%	1/2W	
R575	1-249-467-11	CARBON	68K	5%	1/4W	
R576	1-249-417-11	CARBON	1K	5%	1/4W	
R577	1-249-465-11	CARBON	47K	5%	1/4W	
R579	1-247-891-00	CARBON	330K	5%	1/4W	
R580	1-249-429-11	CARBON	10K	5%	1/4W	
R581	1-249-435-11	CARBON	33K	5%	1/4W	
R582	1-249-429-11	CARBON	10K	5%	1/4W	
R583	1-249-417-11	CARBON	1K	5%	1/4W	
R584	1-249-409-11	CARBON	220	5%	1/4W	
R585	1-249-401-11	CARBON	47	5%	1/4W	F
R586	1-202-818-00	SOLID	1K	10%	1/2W	
R587	1-215-894-11	METAL OXIDE	2.2K	5%	2W	F
R588	1-249-429-11	CARBON	10K	5%	1/4W	
R589	1-249-417-11	CARBON	1K	5%	1/4W	F
R590	1-249-417-11	CARBON	1K	5%	1/4W	
R591	1-249-393-11	CARBON	10	5%	1/4W	F
R592	1-215-874-11	METAL OXIDE	6.8K	5%	1W	F
R593	1-249-427-11	CARBON	6.8K	5%	1/4W	
R594	1-215-921-11	METAL OXIDE	4.7K	5%	3W	F
R595	1-216-436-00	METAL OXIDE	3.9K	5%	1W	F
R596	1-249-463-11	CARBON	27K	5%	1/4W	
R597	1-249-405-11	CARBON	100	5%	1/4W	
R598	1-249-439-11	CARBON	68K	5%	1/4W	
R599	1-249-405-11	CARBON	100	5%	1/4W	
R600	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R601	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R602	1-247-717-11	CARBON	2.2K	5%	1/4W	
R603	1-249-413-11	CARBON	470	5%	1/4W	
R604	1-249-429-11	CARBON	10K	5%	1/4W	
R605	1-247-713-11	CARBON	1K	5%	1/4W	
R606	1-216-398-11	METAL OXIDE	5.6	5%	3W	F
R607	1-216-398-11	METAL OXIDE	5.6	5%	3W	F
R611	1-216-399-00	METAL OXIDE	6.8	5%	3W	F
R614	1-249-429-11	CARBON	10K	5%	1/4W	

<VARIABLE RESISTOR>

RV501	1-228-720-00	RES, ADJ, CERAMIC CARBON 1K
RV502	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M
RV503	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M
RV504	1-228-727-00	RES, ADJ, CERAMIC CARBON 47K
RV505	1-228-995-00	RES, ADJ, METAL GLAZE 22K

<RELAY>

RY501	1-515-626-11	RELAY
RY502	1-515-626-11	RELAY
RY503	1-515-626-11	RELAY
RY504	1-515-626-11	RELAY

<SPARK GAP>

SG501	1-519-422-11	GAP, SPARK

<TRANSFORMER>

T501	1-437-164-11	HDT
T502 ⚠	1-439-390-11	TRANSFORMER ASSY, FLYBACK (NX-2100)

<THERMISTOR>

TH501	1-800-193-00	THERMISTOR

****

	*A-1394-350-A	U1 BOARD, COMPLETE
		**********
	*1-564-506-11	PLUG, CONNECTOR 3P
	*1-564-512-11	PLUG, CONNECTOR 9P
	1-565-269-31	SOCKET, CONNECTOR (D-DUB,L) 9P

<CAPACITOR>

U1

REF.NO.	PART NO.	DESCRIPTION		REMARK
C2001	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C2002	1-126-101-11	ELECT 100MF	20%	16V
C2003	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C2004	1-123-875-11	ELECT 10MF	20%	50V
C2005	1-124-477-11	ELECT 47MF	20%	16V
C2006	1-124-477-11	ELECT 47MF	20%	16V
C2007	1-124-477-11	ELECT 47MF	20%	16V
C2010	1-124-902-00	ELECT 0.47MF	20%	50V
C2011	1-130-728-00	FILM 0.0022MF	5%	50V
C2012	1-106-359-00	MYLAR 0.0047MF	10%	100V
C2013	1-124-902-00	ELECT 0.47MF	20%	50V
C2014	1-124-902-00	ELECT 0.47MF	20%	50V
C2015	1-124-907-11	ELECT 10MF	20%	50V
C2016	1-124-902-00	ELECT 0.47MF	20%	50V
C2017	1-124-907-11	ELECT 10MF	20%	50V
C2018	1-124-902-00	ELECT 0.47MF	20%	50V
C2019	1-136-298-00	FILM 0.0033MF	5%	100V
C2020	1-163-227-11	CERAMIC CHIP 10PF	5%	50V
C2021	1-163-243-11	CERAMIC CHIP 47PF	5%	50V
C2023	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C2024	1-124-120-11	ELECT 220MF	20%	16V
C2025	1-135-155-21	TANTAL. CHIP 4.7MF	20%	10V
C2027	1-163-115-00	CERAMIC CHIP 82PF	5%	50V
C2028	1-126-101-11	ELECT 100MF	20%	16V
C2029	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C2030	1-126-101-11	ELECT 100MF	20%	16V
C2031	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C2032	1-124-126-00	ELECT 47MF	20%	16V
C2033	1-126-163-11	ELECT 4.7MF	20%	50V
C2034	1-163-129-00	CERAMIC CHIP 330PF	5%	50V
C2035	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C2098	1-163-227-11	CERAMIC CHIP 10PF	5%	50V
C2099	1-124-907-11	ELECT 10MF	20%	50V

<NEON LAMP>

CF2001	1-519-526-11	LAMP, NEON	
CF2002	1-519-526-11	LAMP, NEON	
CF2003	1-519-526-11	LAMP, NEON	

<COMPOSITION CIRCUIT BLOCK>

CP2001	1-232-721-11	COMPOSITION CIRCUIT BLOCK	
CP2002	1-232-096-00	COMPOSITION CIRCUIT BLOCK	
CP2003	1-232-721-11	COMPOSITION CIRCUIT BLOCK	
CP2004	1-232-096-00	COMPOSITION CIRCUIT BLOCK	

<DIODE>

D2001	8-719-104-34	DIODE 1S2836	
D2011	8-719-404-46	DIODE MA110	
D2012	8-719-404-46	DIODE MA110	
D2013	8-719-404-46	DIODE MA110	
D2024	8-719-104-34	DIODE 1S2836	
D2030	8-719-104-34	DIODE 1S2836	
D2033	8-719-400-18	DIODE MA152WK	
D2035	8-719-104-34	DIODE 1S2836	
D2040	8-719-104-34	DIODE 1S2836	
D2042	8-719-400-18	DIODE MA152WK	
D2045	8-719-104-34	DIODE 1S2836	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC2001	8-759-634-10	IC M52001SP	
IC2002	8-759-931-07	IC SN74LS365ANS	
IC2003	8-759-634-03	IC M54480P	
IC2005	8-759-930-50	IC SN74LS157NS	
IC2006	8-759-930-50	IC SN74LS157NS	
IC2010	8-759-982-05	IC RC7805FA	

<COIL>

L2001	1-410-471-11	INDUCTOR 12UH	

<TRANSISTOR>

Q2001	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2002	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2003	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2004	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2005	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2006	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2007	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2008	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2009	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2010	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2011	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2012	8-729-900-53	TRANSISTOR DTC114EK	
Q2013	8-729-901-01	TRANSISTOR DTC144EK	
Q2015	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2020	8-729-900-53	TRANSISTOR DTC114EK	
Q2021	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2022	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2024	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2025	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2095	8-729-900-53	TRANSISTOR DTC114EK	
Q2096	8-729-900-53	TRANSISTOR DTC114EK	

<RESISTOR>

R2001	1-216-033-00	METAL GLAZE	220	5%	1/10W
R2002	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R2003	1-216-022-00	METAL GLAZE	75	5%	1/10W
R2004	1-216-022-00	METAL GLAZE	75	5%	1/10W
R2005	1-216-022-00	METAL GLAZE	75	5%	1/10W
R2006	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2007	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2008	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R2009	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R2010	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R2011	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R2012	1-216-025-00	METAL GLAZE	100	5%	1/10W
R2013	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R2014	1-216-025-00	METAL GLAZE	100	5%	1/10W
R2015	1-216-025-00	METAL GLAZE	100	5%	1/10W
R2016	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2017	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2018	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R2019	1-216-017-00	METAL GLAZE	47	5%	1/10W
R2020	1-216-017-00	METAL GLAZE	47	5%	1/10W
R2021	1-216-017-00	METAL GLAZE	47	5%	1/10W
R2022	1-216-017-00	METAL GLAZE	47	5%	1/10W
R2023	1-216-017-00	METAL GLAZE	47	5%	1/10W
R2024	1-216-017-00	METAL GLAZE	47	5%	1/10W
R2025	1-216-107-00	METAL GLAZE	270K	5%	1/10W
R2026	1-216-085-00	METAL GLAZE	33K	5%	1/10W

U1

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R2027	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R2028	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R2030	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R2031	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2032	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2033	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2034	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2035	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R2036	1-212-958-00	FUSIBLE	10	5%	1/2W	F
R2037	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R2038	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2039	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2040	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R2041	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R2042	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2043	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2044	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R2045	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2046	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R2047	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2048	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R2049	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2050	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2051	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2052	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R2053	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R2054	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R2055	1-216-107-00	METAL GLAZE	270K	5%	1/10W	
R2056	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2057	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2058	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2059	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R2060	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R2061	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R2062	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2063	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2064	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2065	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R2066	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R2067	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R2068	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2069	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2070	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2071	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2072	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2073	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2074	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2075	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2076	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2077	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2078	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2079	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2080	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2081	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2082	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2083	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2084	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R2085	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2086	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R2087	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R2088	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R2089	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R2090	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R2091	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2092	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R2093	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2094	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2095	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2096	1-216-093-00	METAL GLAZE	68K	5%	1/10W	
R2097	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2098	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R2099	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R2100	1-216-115-00	METAL GLAZE	560K	5%	1/10W	
R2101	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R2102	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R2103	1-216-049-00	METAL GLAZE	1K	5%	1/10W	

<VARIABLE RESISTOR>

RV2001	1-228-993-00	RES, ADJ, METAL GLAZE 4.7K

<SWITCH>

S2001	1-572-189-11	SWITCH, PUSH (1 KEY)
S2002	1-571-868-11	SWITCH, PUSH (1 KEY)
S2003	1-571-427-11	SWITCH, SLIDE
S2004	1-571-429-11	SWITCH, SLIDE

<SOCKET>

SP2002*	1-562-994-11	SOCKET, JUMPER CONNECTOR

****

MISCELLANEOUS
****

	1-537-207-21	TERMINAL BOARD ASSY, U
⚠	1-230-666-41	RESISTOR ASSY, HIGH-VOLTAGE
⚠	1-426-442-21	COIL, DEMAGNETIZATION
⚠	1-450-678-11	TRANSFORMER, POWER
⚠	1-451-384-21	DEFLECTION YOKE (Y14FGC3)
	1-452-032-00	MAGNET,DISK; 10MMφ
⚠	1-526-954-11	INLET, AC
	1-543-653-11	CORE ASSY, BEAD
	1-544-252-11	SPEAKER
⚠*	1-568-507-11	CONNECTOR, BRIDGE 15P
⚠	8-738-259-05	PICTURE TUBE 14FGE (M34JNQ15X)

****

ACCESSORIES & PACKING MATERIALS
****

	PART NO.	DESCRIPTION	REMARK
	1-543-653-11	CORE ASSY, BEAD	
⚠	1-551-812-11	CORD, POWER (7.0A/125V)	
	3-754-392-21	MANUAL, INSTRUCTION	
*	4-035-567-01	INDIVIDUAL CARTON	
	4-384-027-01	BAG, PROTECTION	
*	4-397-134-01	CUSHION (UPPER) (ASSY)	
*	4-397-135-01	CUSHION (LOWER) (ASSY)	

9-978-261-01

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